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- GREEN BIO-PRODUCTS
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- URBAN SYSTEMS

*Maclean’s 2018 Ranking of Best Universities for Business in Canada
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Did you know hiring a full-time engineer can cost tens of thousands in recruitment fees, time and labour? Hire a UBC MEL today to save.

CLASS OF 2018 PROFILE
Available for full-time employment January 2019

cohort size 68
female 34%
male 66%
average age 30
average yrs. work exp. 5-7

Pre-program areas of study

<table>
<thead>
<tr>
<th>Area</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering</td>
<td>18%</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>11%</td>
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<tr>
<td>Computer &amp; Software Engineering</td>
<td>11%</td>
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<tr>
<td>Industrial Engineering</td>
<td>9%</td>
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<tr>
<td>Electrical Engineering</td>
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<tr>
<td>Chemical Engineering</td>
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<tr>
<td>Petroleum Engineering</td>
<td>5%</td>
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<tr>
<td>Marine Engineering</td>
<td>5%</td>
</tr>
<tr>
<td>Urban Planning &amp; Design</td>
<td>5%</td>
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<tr>
<td>Environmental Science</td>
<td>5%</td>
</tr>
<tr>
<td>Architecture</td>
<td>3%</td>
</tr>
<tr>
<td>Other</td>
<td>14%</td>
</tr>
</tbody>
</table>

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Graduates are equipped with cross-functional technical and business skills to work as experts in automotive, aerospace and manufacturing sectors. They possess the skills and expertise to research, develop, test and optimize new multi-material manufacturing solutions to lighten cars and planes, and reduce their environmental footprint.
Enthusiastic about all aspects of manufacturing, I particularly enjoy connecting with people and inspiring them with new ideas I am passionate about. I find the field of industrial robotics fascinating because of its wide breadth of possible applications and future impact. My previous jobs have taken me around the world and allowed me to experience beautiful cultures. I plan to pursue a career in business and strategy development to further interact with people globally.

**Key Accomplishments**

- Successfully completed the Nestle Graduate Development Program with stints in Dubai, Iran, and Switzerland.
- Utilized Lean Manufacturing methodologies in completing optimization projects with total manufacturing cost savings exceeding $100,000 per year.
- Developed an image processing solution as part of my engineering capstone project for a product sold by a company in Germany.

**Experience**

- Packaging Engineer, Nestle Dubai Manufacturing, Dubai, United Arab Emirates
- Project Engineer, Dar Al-Handasah, Amman, Jordan
- Mechanical Engineering Intern, Precon Robotics, Bayreuth, Germany

**Education**

- Master of Engineering Leadership in Advanced Materials Manufacturing, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Mechatronics, German Jordanian University, Amman, Jordan
- Exchange Student in Mechatronics, Bochum University of Applied Sciences, Bochum, Germany

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I am a seasoned mechanical design engineer with 12 years of experience in R&D and manufacturing for products including cameras and print heads. I have four years of experience in manufacturing process planning, improvement, and ISO 9002 implementation. My expertise is in bridging the gap between North American/European/other market requirements and manufacturing in China. I have demonstrated engineering leadership experience through establishing a start-up operation in China for Italy-based company Microllys S.p.A..

**Key Accomplishments**

- Established and managed the start-up operation in China for Italy-based company Microllys S.p.A., which acts as the headquarters for Microllys Asian operations for R&D and manufacturing, procurement, and logistics, and as a business and commercial player in Asian markets.
- Developed business in China with the development of two new products of dot matrix print heads and successfully penetrated the China market. Performed strategic procurement for cost reduction by up to 89%. Established supply chain among Italy, China and Vietnam.
- Received the Discretionary Retention Award 2004 from Concord Camera Corp. US for outstanding performance in new product design.

**Experience**

- Senior Engineer, Microllys Printing Devices (Shenzhen) Company Ltd., Shenzhen, China
- Mechanical Engineer, Concord Camera H.G. Electronic Factory, Shenzhen, China
- Mechanical Engineer, Shenzhen Opal Manufacturing Co., Ltd., Shenzhen, China

**Education**

- Master of Engineering Leadership in Advanced Materials Manufacturing, University of British Columbia, Vancouver, Canada
- Bachelor’s Degree of Engineering, Mechanical Engineering and Automation, Kunming University of Science and Technology, Shenzhen, China
- Secondary Specialized School Graduation in Machine Manufacturing, Shaanxi Polytechnic Institute (Former Shaanxi Machine Manufacturing School), Xianyang, China
Haiting Shang

With over 10 years of engineering experience in leading edge semiconductor manufacturing, I am keenly interested in developing and applying new skills in advanced materials manufacturing. I have worked in both Silicon and Plastic Circuit Board (PCB) manufacturing factories. I feel comfortable working in Clean Room environment. I also have experience in Supplier Management with scope covering factory audit, product qualification, and successful mass production.

Key Accomplishments

• Published paper in Supplier Line Yield improvement was selected by 2017 Intel Supplier Chain Technical Leader Forum (SCTLF) and presented the achievement in Portland, Oregon.
• Golden Award Winner on Intel Fab68 “IDEA 2013” forum for innovative chemical application on new process.
• Third Level Prize on Metallurgical Science and Technology by Chinese Iron and Steel Association for the formation of Calcium Ferrite and its mineralogy research.

Experience

• PCB Substrate Development Engineer, Intel Global Supplier Management, Chongqing, China
• Wet ETCH Process Engineer/Staff Technologist, Intel Fab68, Dalian, China
• Senior Process Engineer, SEMITOOL China, Beijing, China

Education

• Master of Engineering Leadership in Advanced Materials Manufacturing, University of British Columbia, Vancouver, Canada
• Master of Physical Chemistry in Metallurgy, University of Science & Technology Beijing, Beijing, China
• Bachelor in Chemical Engineering, Yantai University, Yantai, China
Graduates are poised to bring high-level technical ability matched with valuable business skills to the fast-growing field of clean energy. They have developed the technical capacity to minimize environmental impacts, promote geopolitical stability and enable economic diversification. They have broadened their skill sets to become leaders within sustainable energy systems, energy distribution networks, environmental energy and the societal impacts of energy choices and use.
Zainab Abdulbari

I am a civil engineer, passionate about renewable energy integration into buildings, with two masters: in sustainable built environments and clean energy engineering. I am always up to date with new renewable technologies and always willing to find smaller scale solutions that suit buildings. I have experience in research, energy modeling, life cycle analysis. I have also developed great communications and leadership skills through working individually as well as with teams.

Key Accomplishments

- Tested the effect of green roof on PV panels efficiency. The efficacy improved by (0.6 - 1.3) % in comparison to regular roof tops. PV panels Temperature also dropped by (2.5 - 5)c.
- Investigated the GH5 emissions of installing Tumbler Ridge Wind Farm, BC, and the effect of grid connections. Key findings: 410 Kg of CO2 per wind Turbine for installation only. The biggest emitter from Grid connection was the cables.
- Explored the potential of renewable energy in Canada. BC have shown a great potential in both Solar and Wind energy. Remote communities also have many opportunities in energy mix, cluttered around BC and Ontario.

Experience

- Technical and Sales Engineer, Knauf, Baghdad, Iraq
- Project Coordinator, Al-Albad Company for General Contracts, Baghdad, Iraq
- Civil Engineer, Ministry of Agriculture, Baghdad, Iraq

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- MSc in Design and Management of Sustainable Built Environment, University of Reading, Reading, UK
- BSc in Structural Engineering, University of Technology, Baghdad, Iraq

Diana Aguilar

I am passionate about generating positive economic, environmental, social and cultural impact while achieving sustainable development and clean growth. I have worked in diverse industries and earned a reputation as a top performer and strong team player. With 12 years of experience, I am adept in managing all levels of large and small scale projects, as well as leading individuals while helping them achieve their goals. Through my work experience, I have also cultivated strong communication and leadership skills in working with diverse teams, giving presentations to Board of Directors, engaging stakeholders and negotiating contracts.

Key Accomplishments

- Led annual budget of $500K for 13 companies, such as ABInBev, Coca-Cola, McDonald’s, Owens-Illinois, Tetra Pak, and Unilever, and designed a three-year strategy to ensure a positive financial performance with costs reduction, associates inclusion, and project benefit establishment.
- Developed the Learning Communities project in more than 40 educational establishments, benefiting over 17,000 students in Colombia.
- Developed long-term sustainability strategies (waste management, energy efficiency, climate change, and education quality), developed frameworks and key performance indicators, and validated stakeholders accountability.

Experience

- Sustainability Scholar, Fraser Basin Council, Metro Vancouver and BC Hydro, Vancouver, Canada
- Executive Director, CEMPRE, Bogota, Colombia
- Sustainability Manager, Natura, Bogota, Colombia
- Planning Director, Fundacion Compartir, Bogota, Colombia

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Master of Environmental Management, Universidad de los Andes, Bogota, Colombia
- Diploma in Social Responsibility Management, IE Business School, Bogota, Colombia
- Master of Finance, Universidad de los Andes, Bogota, Colombia

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M.K. Anand

I am a passionate problem solver, a connector and a believer that sustainable infrastructure projects are going to solve the world’s problems. I have 10 years of experience building nuclear power plants and sustainable mining and metal production, nuclear waste treatment plant and rooftop solar farms. From Tennessee to Kitimat, I have worked on-site and in the office, as a design engineer and in the field, seeing all aspects of bringing multi-billion projects to life.

Key Accomplishments

- Was the sole responsible project engineer for $40 million of material handling and storage infrastructure project on Kitimat Aluminum smelter project.
- Led the engineering team in saving $15 million on identifying and replacing critical safety mechanical infrastructure in nuclear waste treatment plant.
- Greenest City Scholar for the City of Vancouver recognized for successful business model of a solar rooftop utility that is net present value positive with a payback period under 10 years.

Experience

- Greenest City Scholar, City of Vancouver, Vancouver, Canada.
- Senior Mechanical Systems and on-site Resident Engineer, Bechtel National, Hanford Nuclear Waste Vitrification Plant, Hanford, USA.
- Mechanical Responsible Engineer and Project Engineer, Bechtel Canada, Kitimat Aluminum Smelter, Kitimat, Canada
- Nuclear Plant Design and Pipe Stress Engineer, Bechtel Power, Knoxville, Tennessee, USA

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelor's in mechanical engineering with Minor in Business Administration, University of Windsor, Canada

Poorna Chandra

I am a motivated power engineer and energy enthusiast who believes in team work, continuous learning, and the idea that small efforts everyday will result in big changes. I worked as a Control and Instrumentation Engineer for 5 years in super critical power stations. I was consistently promoted within the organisation and successfully commissioned four units from construction to maintenance. I was also deputed to Myanmar to lead a project team for the commissioning of combined cycle gas power plant.

Key Accomplishments

- Received STAR IDEA award from Sembcorp Group CEO for reliability improvement as part of Profit Improvement Program (PIP) saving more than $2M per annum.
- Acting Vice Chairman and Co-founder of Eye Cross Foundation, an NGO aimed at Eye & Organ donation, which was awarded the best social welfare organisation by All India Body Donor’s Association.
- Served as the student secretary of the department of electronics and communication engineering & organised many technical symposiums at the national level.

Experience

- Senior Project Engineer, Myingyan Power (225MW Combined Gas Power Plant), Sembcorp, Myanmar
- Senior Engineer- Control & Instrumentation, Sembcorp Gayathri Power Limited (4*660 MW), Nellore, India

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelor of technology in Electronics and Communication Engineering, SV University, India
I am a father, an engineer, and a believer. I believe that each of us can make a difference and change the world around ourselves if we think about others first. During my nine years of professional experience I have sought to optimize processes and products, in order to reduce waste in time, resources, and increase the positive outcomes for the people involved in every project I’ve worked, both as a team member or manager.

**Fernando Ito**

I am a father, an engineer, and a believer. I believe that each of us can make a difference and change the world around ourselves if we think about others first. During my nine years of professional experience I have sought to optimize processes and products, in order to reduce waste in time, resources, and increase the positive outcomes for the people involved in every project I’ve worked, both as a team member or manager.

**Key Accomplishments**

- Managed the project portfolio of several offshore units, contracted with different shipyards located in different countries such as Singapore, China, Japan, and Brazil.
- Worked collaboratively with top management in Petrobras’ most recent reorganization that resulted in a 43% cut in managing positions and an annual saving of US$ 500 million.
- Expatriated in Japan for 1.5 years at Kawasaki Heavy Industries Shipyard, as the client’s representative in a Drilling Rig Unit construction and managed the Planning and Control team.

**Experience**

- Mechanical Engineer, Petrobras, Rio de Janeiro, Brazil
- Product Design Engineer, Volkswagen, Sao Bernardo do Campo, Brazil
- Intern, General Motors, Indaiatuba, Brazil

**Education**

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Executive MBA in Finance, IBMEC, Rio de Janeiro, Brazil
- Bachelor in Mechanical Engineering, UNICAMP, Campinas, Brazil

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I am a Materials Engineer passionate about the world of Renewable Energy and driven to aid the world in reaching a sustainable future. Currently, I am working with industry to optimally size a solar energy storage system for an off-grid community – with the final goal of reducing their diesel usage. My previous four years of manufacturing experience provided me with the leadership ability to supervise large teams of industry experts through daily operations, technical projects, and route-cause-analysis processes.

**Narain Khera**

I am a Materials Engineer passionate about the world of Renewable Energy and driven to aid the world in reaching a sustainable future. Currently, I am working with industry to optimally size a solar energy storage system for an off-grid community – with the final goal of reducing their diesel usage. My previous four years of manufacturing experience provided me with the leadership ability to supervise large teams of industry experts through daily operations, technical projects, and route-cause-analysis processes.

**Key Accomplishments**

- Led a team of technical experts through a Lean Six Sigma process of the hot-fill line machine center changeover that reduced changeover times by 30% and increased overall line running efficiency by 3%.
- Reduced water consumption on the bottle line by millions of litres annually by reducing filler rinse times from 12 minutes to 5 minutes through theoretical calculations, applied and quality testing.
- Single-handedly organized a successful overhaul of a can multipacker – improving machine speed from 15 cases/hour to 50 cases/hour.

**Experience**

- Production Supervisor, PepsiCo Beverages, Delta, Canada
- Maintenance Engineering Associate Supervisor, PepsiCo Beverages, Delta, Canada
- Research Assistant, Canfor Innovation, Burnaby, Canada

**Education**

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelors of Applied Science specializing in Materials Engineering, University of British Columbia, Vancouver, Canada

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Balpreet Kukreja

I am a driven engineer with over five years of experience working on large-scale mechanical power transmission projects. I led a small engineering team in Prince George, BC that developed bearings for clean energy projects such as a wave-power generator off the coast of Vancouver Island. I have thorough experience with life cycle analysis (LCA), having recently completed an LCA project on electric vehicles and their impact for the City of Vancouver.

Key Accomplishments

- Engineering Supervisor for a team of four engineers supporting a bearings business unit with annual sales of $48 million.
- Completed a comprehensive life cycle analysis on electric vehicles for the City of Vancouver and delivered an actionable, public-facing report to further electric vehicle infrastructure in the City’s fleet.
- Currently designing a solution to generate 1.4MW of clean solar power from unused roof space, such as on top of Thunderbird Parkade at UBC. Creating business case to integrate solar power with hydrogen electrolyzers and energy storage.

Experience

- Greenest City Scholar, City of Vancouver, Vancouver, Canada
- Engineering Supervisor, Timken Housed Units, Prince George, Canada
- Senior Product Engineer, Timken Housed Units, Prince George, Canada

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Mechanical Engineering, Queen’s University, Kingston, Canada

Vishnu Kumar (Vaithyam Jothi)

For 3.5 years I have worked for a Fortune 500 company in Singapore, where I gained technical and executive experience. By directing the technical team and supervising various improvement projects increased the throughput. I have experience in strategic planning of fabrication unit expansion and maintaining tool downtime. I am certified in Mechanical CAD software, six sigma green belt, and have worked with the Government of India Research facility (CSIR) to re-engineer hydrogen fuel cells. Currently, I am focusing on renewable and sustainability issues.

Key Accomplishments

- Communicated with stakeholders of a semiconductor fabrication unit to improve manufacturing availability by 3%, which resulted in saving USD $15 million/year. Coordinated teams to obtain 4-year DEKRA audit certification for manufacturing quality semiconductor memory product.
- Lead an entrepreneurial team to do a market analysis of a miniaturized piezoelectric powered pump (Pumptech) through Lead Launch Pad, Singapore. Using business canvas model established target customers such as data centers rack manufacturers worth US $ 2 billion.
- Associated with Council of Scientific Research, India to develop and redesigned a 1kW hydrogen fuel cell stack to increase the overall efficiency by 10%.

Experience

- Manufacturing Engineer, Micron Technologies, Singapore
- Project fellow, Council of Scientific Industrial Research, Chennai, India

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Master of Science in Manufacturing Technology and Automation, National University of Singapore, Singapore
- Bachelor of Engineering in Mechanical Engineering, Anna University, India
Hannah MacDonald

As a clean energy and environmental project manager, I have five years of experience in environmental remediation, project development, and stakeholder engagement. Seeing creative energy applications as critical climate change solutions, I translate complex technical information to build stakeholder consensus and move projects forward.

Key Accomplishments

- Engaged over 50 Metro Vancouver businesses through circular economy workshops and resource synergy follow-up in a Canadian pilot program as a UBC Sustainability Scholar.
- Led a multi-year $200K environmental monitoring project of remediated industrial facility in Alberta requiring on-site project management, monitoring methodology development, and government reporting.
- Developed remediation plan for one component of a $40M project dredging project in Israel.

Experience

- Community Manager, Impact Hub, Budapest, Hungary
- Project Manager, EnGlobe Corp., Edmonton, Canada
- Manager, Education & Communications, ACAP Cape Breton, Sydney, Canada

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Environmental Science, Minor in Biology, Mount Allison University, Sackville, Canada

Gerardo Marquez

After 10+ years in engineering consulting companies, in several countries, I decided to combine my knowledge in the oil and gas industry with a sustainable energy approach. By gaining an understanding of how British Columbia projects are being developed, it is my goal to contribute to the reduction of carbon intensity by seeking the execution of highly efficient energy projects. During my career, I have developed outstanding abilities in communication, leadership, and multitasking managerial skills.

Key Accomplishments

- Managed and negotiated subcontractor and material contracts that generated a 32% of savings.
- Increased in 45% the number of projects by improving the technical quality of deliverables and relationship with clients.
- Received award as best employee in 2016 for the outstanding performance as project coordination in the Detail Design development for the facilities associated with the Kandym Gas Field Project in Uzbekistan.

Experience

- Greenest City Scholar, City of Vancouver Engineering Operations, Vancouver, Canada
- Project Engineer, China National Petroleum Corporation, Caracas, Venezuela
- Project Coordinator, Tecnoconsult, Tashkent, Uzbekistan

Education

- Master of Engineering Leadership in Clean Energy, University of British Columbia, Vancouver, Canada
- Master of Science in Natural Gas Supply, Technical University of Clausthal, Clausthal, Germany
- Bachelor of Science in Mechanical Engineering, Universidad Nacional Experimental del Táchira, San Cristobal, Venezuela
Valentin Arsono Meyer

Growing up in Java Island, Indonesia, I have always been motivated by the desire to sustainably fulfill the need of water, food and energy for communities living in off-grid areas. In my previous experience, I was entrusted with significant responsibilities in the construction of a multi-million renewable energy research development and demonstration platform from conceptualisation to commissioning. Fluent in four languages and as the owner’s engineer, I facilitated discussion and solved burning issues with contractors, consultants, partners and government officials.

Key Accomplishments

• Designed, scheduled, installed and commissioned two remote off-grid hybrid microgrid systems on a man-made landfill island located 8 km south of Singapore.
• Successfully collaborated with key stakeholders in integrating 630 kWp solar PV, 100 kW wind turbine, 600 kWh Li-ion batteries, 200 kVA diesel generators, multiple microgrid controllers and various end use of energy.
• Written, reviewed and negotiated contracts with a total sum of US $2.1 million.

Experience

• Graduate Capstone Project Student, Urban Systems, Vancouver, Canada
• Project Engineer, Nanyang Technological University, Singapore, Singapore
• Numerical Modeling Intern, Électricité de France, Paris, France
• Physical Modeling Intern, Électricité de France, Paris, France

Education

• Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
• Bachelor of Engineering (Honours) in Civil Engineering, Monash University, Melbourne, Australia
• Diploma of Engineering, Monash College, Melbourne, Australia

Robert Teal Moffat

I am an environmental professional with a deep understanding of the renewable energy sector. I have been working in the hydroelectric sector for 13 years in a variety of capacities. I have participated in hydroelectric construction projects, supported facility operations, and have managed various projects and programs associated with impact mitigation. My professional interests are clean energy, energy storage and energy policy.

Key Accomplishments

• Conducted a technical feasibility of energy storage applications for peak shaving – BC Hydro.
• Acted as owners representative for Environmental Affairs for the Waneta Dam Expansion Project (~$900 million project).
• Coordinated a reburial ceremony with three different First Nations groups following the discovery of remains (~40 attendees).

Experience

• Owner, Riparia Resource Management, Nelson, Canada
• Environmental Manager, Columbia Power Corporation, Castlegar, Canada
• Natural Resource Specialist, BC Hydro, Castlegar, Canada
• Biologist, Golder Associates, Castlegar, Canada
• Environmental Supervisor/Inspector for the Brilliant Dam Expansion Project, Golder Associates, Castlegar, Canada

Education

• Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
• Bachelor of Science in Environmental Science, Royal Roads University, Victoria, Canada
• Diploma in Environmental Planning, Selkirk College, Castlegar, Canada
• Diploma in Horticulture Technology, Kwantlen Polytechnic University, Langley, Canada
I am passionate about Clean Energy technologies, believing that they are the key to building and sustaining a better future for humankind on a planet devastated by excessive misuse of its resources. The MEL program has equipped me with the technical knowledge and leadership skills to be a part of the evolving clean energy and sustainability field. I look forward to leveraging my 12 years of experience in management and engineering to transition to the Clean Energy Field.

Key Accomplishments

• Site management of $1.2 million service contract for five years, leading 30+ projects with various diverse teams.
• APMP – Project Management Certificate, a PMI-recognised British equivalent for PMP.
• Led the integration of hydrographic survey sensors onto ROV system, a unique, first of its kind project for my company and in all of Egypt.

Experience

• Site Manager, Fugro SAE, Cairo, Egypt
• Senior Engineer, Fugro SAE, Cairo, Egypt
• Underwater Engineer, Fugro SAE, Cairo, Egypt

Education

• Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
• IPMA Level D APMP, Association of Project Management (APM), Buckinghamshire, United Kingdom
• Bachelor of Science in Electrical Engineering (Computer and Systems), Ain Shams University, Cairo, Egypt

Roberto Orendain

I am an entrepreneur with a primary focus on sustainable development. After starting my Renewable Energy company, Solarica, I discovered my ability for connecting the Engineering and the Business worlds. For the past three years, I have worked as Business Development Manager for my company. Since I am passionate about decarbonizing conventional energy systems, I am taking this program to become an influential business leader that changes the way the world produces and uses energy.

Key Accomplishments

• Started from the cradle a Solar Photovoltaic (PV) company (2015) until achieving a net revenue of $170,000 USD in 2017.
• Certified myself as a professional installer of photovoltaic systems in the residential, commercial and industry sector by the Federal Electricity Commission of Mexico.
• I was one of only 161 Mexican professionals who was granted a full scholarship for Postgraduate Studies related to Energy Sustainability in top-ranked universities.

Experience

• Business Development Manager, Solarica, Merida, Mexico
• Sales Engineer, Solarica, Merida, Mexico
• Sales Representative, Ecocentro, Merida, Mexico

Education

• Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
• Bachelor of Engineering (B.Eng.) in Engineering Physics, Autonomous University of Yucatan, Merida, Mexico
Lakshman Pulibandla
linkedin.com/in/lakshman-pulibandla

I am passionate about analyzing system performance and finding ways to increase energy savings. I am interested in implementing a control system to increase system effectiveness. I have worked in the power generation industry for four years and successfully executed the project from erection, commissioning and maintenance of 4X660MW units. I also have experience in managing people, equipment, procedures and department budget.

Key Accomplishments
- Maintained department budget of $3 million CAD for department inventory.
- Conducted erection quality plan audits and signed off for commissioning the system. Implemented modifications in systems to reduce the probability of plant outage by 50%.
- Developed and maintained high safety standards for safety of workers and achieved 7.5 million man hours without lost time injuries (LTI).

Experience
- Maintenance Engineer, SembCorp, Nellore, India

Education
- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelors of Technology - Electronics and Communication Engineering, Sunrise University, Alwar, India.
- Polytechnic in Electronics and Communication Engineering, C.R Polytechnic College, Andhra Pradesh

Juan Carlos Viveros
linkedin.com/in/jcviveros

I am a Procurement Project Manager with seven years of combined experience in sourcing and supply chain of industrial goods. I am passionate about management consulting in strategy and supply chain as well as energy generation and sustainable transportation.

Key Accomplishments
- Generated $4.6 million of annual cashflow by increasing suppliers’ days to pay identified with big data analytics.
- Centralized RFQ tasks from 80 sites preparing 20K packages and saving 800 man-hours (40%) for Sourcing team.
- Identified $2 million of consigned-inventory liability not reported in financials by creating module in consignment-warehouse forecast tool.

Experience
- Sourcing Operations Manager, GE Energy Connections, Monterrey, Mexico
- Corporate Audit Staff, GE Power, Houston, USA
- Materials Planner / Contract Administrator, GE Transportation, Monterrey, Mexico
- Supply Chain Analyst, Ingenico Group, Sao Paulo, Brazil

Education
- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Industrial Engineering, Tecnologico de Monterrey, Monterrey, Mexico
Alexis Kneip Ward
linkedin.com/in/alexis-kneip-ward

I started my career in logistics, and later on, I moved to the oil and gas sector, where I worked as a project finance coordinator, managing oil and gas financing structures for assets such as oil platforms and ships. I led multidisciplinary teams, and I was involved in complex negotiation processes, such as raising financings and conducting joint ventures projects. What motivates me is getting the results, transforming ideas and challenges into project and ventures.

Key Accomplishments
- Led initiatives to reduce the company leverage and exposure to financial risks. This process resulted in a reduction of 16% of the gross debt and a reduction from of the NetDebt/EBITDA from 3.67 to 3.23.
- As a project finance coordinator, I worked in multidisciplinary teams that were responsible for raising financing of about US $2.5 billion.
- I took part in the creation of a new venture dedicated to outsource client’s logistics activities. This new venture became later a subsidiary dedicated to offer integrated logistics solutions. In 2017, this company was one of the main players in Brazil in the logistics sector.

Experience
- Debt Restructuring Coordinator, Petrobras, Rio de Janeiro, Brazil
- Project Finance Coordinator, Petrobras, Rio de Janeiro, Brazil
- Integrated Logistic, Division Manager, Correios, Brasilia, Brazil

Education
- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- M.A. Business, Brazilian Institute for Capital Market - IBMEC, Rio de Janeiro, Brazil
- B.A. Industrial Engineering, Federal University of Rio de Janeiro – UFRJ, Rio de Janeiro, Brazil
DEPENDABLE SOFTWARE SYSTEMS

Graduates are positioned with a unique combination of technical and business skills to lead implementation of data-driven decision-making, insurance of software dependability and optimization. They are prepared to excel in high-profile leadership positions — armed with the communication skills and technical capability to ensure functionality of large computer systems.
Neha Bedi

I have four years of experience in developing and testing robust software solutions for challenging and complex problems. I have worked as a Software Developer focusing on designing, implementing and testing applications on Salesforce.com and integrating them with in-house financial applications using web services. I have successfully created and mentored a team of four developers on multiple Salesforce projects. I am passionate about empowering women and chaired the Professional Women Committee in my previous organization. I am currently exploring the field of distributed systems and edge computing through the Capstone project as part of the Dependable Software Systems program.

Key Accomplishments
- Designed and implemented one of the critical projects for investor onboarding process which involved integration with multiple in-house applications.
- Retained an 85% average during my MEL in Dependable Software Systems and Master of Computer Applications programs.
- Part of a two-member team from the Master of Computer Applications program selected for the Global Internship Program in Engineering Design and Innovation (GIPEDI) internship in IIT, Delhi (2013).

Experience
- Software Developer, ThoughtFocus Technologies (COE), Gurgaon, India
- Technology Analyst, ThoughtFocus Technologies (COE), Gurgaon, India

Education
- Master of Engineering Leadership in Dependable Software Systems, University of British Columbia, Vancouver, Canada
- Master of Computer Applications, Indira Gandhi Delhi Technical University for Women (formerly IGIT, GGSIPU), New Delhi, India
- Bachelor of Computer Science Honors, University of Delhi, New Delhi, India

Manik Handa

For the last seven years, I have been helping organizations release high-performance bug-free financial software and investment management tools. As an Automation Development Test Lead, I have implemented, maintained and enhanced automation frameworks to help teams in their efforts of finding visible and hidden functional, UI, data and web services bugs. I have also mentored teams of 6-10 test engineers in the art and science of testing and have ensured they stay motivated and passionate. As a student of Dependable Software Systems, I have developed an understanding of Distributed Systems through coursework and projects and am now working on a Capstone project in the field of Edge Computing.

Key Accomplishments
- Designed and implemented the capability for database, web services and functionality testing in the Automation framework.
- Successfully led teams of 6-10 test engineers on multiple projects for ThoughtFocus Technologies.
- Maintained an average above 85% during time in the program.

Experience
- Automation Team Lead, Thought Focus Technologies, Gurgaon, India
- Technology Quality Analyst, S&P Capital IQ, Gurgaon, India

Education
- Master of Engineering Leadership in Dependable Software Systems, University of British Columbia, Vancouver, Canada
- Bachelor of Technology in Electronics Engineering, NMIMS University, Mumbai, India
Vimal Philip

I am a results-driven, self-motivated engineer passionate about software paradigms and making software applications dependable and easy to use. I have four years of experience in software development and expertise in a wide range of programming languages and concepts. Additionally, I have experience managing people and resources, and have leveraged communication and leadership skills in working with diverse teams. I am knowledgeable of all stages of the project life-cycle right from the requirements gathering phase to deployment and maintenance.

Key Accomplishments

- Developed new User Interface features for Security Models application (Accelerator) in which external and firm money managers make security models and assigns security values to be used for investment clients.
- Designed and deployed a reconciliation system encapsulating complex business requirements through frequent client interaction reducing two Man Days for EQD(Equity Derivative) Operations.
- Awarded Infosys Insta Award recognizing the efforts in Client Interaction and Design Development for developing a stand-alone application and integrating it with a Web application for Margin calculations and eligibility.

Experience

- Senior System Engineer, Infosys Ltd, Bangalore, India
- IT Consultant, Goldman Sachs, EGL, Bangalore, India
- IT Consultant, Morgan Stanley, Ecoworld, Bangalore, India

Education

- Master of Engineering Leadership in Dependable Software Systems, University of British Columbia, Vancouver, Canada
- Bachelor of Technology in Computer Science and Engineering, Mahatma Gandhi University, Kottayam, India

Nandhini Ramachandran

I am a technical research analyst with business acumen and yearning to solve complex business challenges. I have more than eight years of expertise technical research and two years of experience in the software industry providing technical expertise and interacting with stakeholders. Proficient at identifying potential problems and offering alternative solutions; ability to provide technical insight and initiate process improvements that facilitate optimal performance. I am skilled in adapting to new environments, working with cross-functional teams and generating new ideas. I have both the technical expertise and strategic management skills to manage projects, prepare business cases, discuss engineering concepts and perform analyses.

Key Accomplishments

- Played the role of business analyst and handled functional requirements for major customer account. Estimated the effort required to build solutions for business requirements. Recommended new business rules and process changes which would assist in achieving seamless straight through processing of requirements.
- Strong track record of developing research methods and publishing in reputed academic journals in telecommunication networks domain.
- Demonstrated ability to effectively manage an academic institution curriculum design and deliver results in an environment of shifting priorities and tight deadlines.

Experience

- Assistant Professor, Vellore Institute of Technology, Chennai, India
- Software Technical Consultant, Claystone-Technology, Chennai, India
- Research Assistant, Anna University, Chennai, India

Education

- Master of Engineering Leadership in Dependable Software Systems, University of British Columbia, Vancouver, Canada
- Ph.D. in Computer Science and Engineering, Anna University, Chennai, India
- Master of Engineering in Computer science and Engineering, King Mongutt’s University of Technology Thonburi., Bangkok, Thailand
- Bachelor of Engineering in Computer science and Engineering, Bharathidasan University, Thanjavur, India
Amit Kumar Singh

I am a software engineer by profession. Three things about me that give me a competitive advantage.

1. Professional Experience: I have more than 10,000+ hours (11 years) of software engineering experience.
2. Emotional Intelligence: I build strong mentor-mentee relations thanks to my knowledge of cultural diversity across the globe. I know this because I have rich experience in both roles.
3. Craftsmanship: I strive to be an institutionalist. This gives me the ability to master the core knowledge of multiple disciplines in academia.

Key Accomplishments

- I have worked in teams of 2 - 10 of varied experience set across a variety of technology stacks in three different countries in the past 11 years of professional work as a software engineer.
- In 80% of my career, I have been associated with teams that are responsible for distinguished contributions to bottom-line of the organization.
- I am a teacher at heart and I have trained innumerable software engineers in personal capacity across domains and cultures. I am an advocate for inducing organizational-learning culture in multicultural teams.

Experience

- Freelance Engineering Services Provider, USA and India
- Distributed Systems Engineer, Software Engineer Level 3, Cisco Systems, San Jose, USA
- Programmer Analyst, HeMast Technologies Pvt. Ltd, Goleta and Atlanta, USA
- Master of Engineering Leadership in Dependable Software Systems, University of British Columbia, Vancouver, Canada

Education

- Bachelor of Engineering in Information Technology, Delhi College of Engineering, New Delhi, India
- K12 from Central Board of Secondary Education (CBSE across various places in India)
Graduates are highly qualified personnel with the specialized knowledge and practical experience to assume challenging roles in the rapidly evolving lignocellulosic biomass products sector. As students, they gained a comprehensive and integrated understanding of the chemistry and anatomy of the tree, production pathways for biocomposites and fuels, and the spectrum of potential green products and fuels.
Before joining the MEL, I had built a unique background; a chemical and biological engineering degree with six years of multi-industry strategy and operations experience in developed and emerging markets. I am passionate about the intersection of the bio-based value chain and circular economy business models having worked with Vancouver’s first zero-waste grocery store to reduce the plastic consumption by 300,000 containers per year. This year helped to gear my cross-functional technical and business skills to develop sustainable and profitable solutions for the growing circular economy.

### Key Accomplishments

- Built a sales and marketing operations for Dubai-based startup, and led expansion of the company into Turkey. Grew operations team from 3 to 12 people in two years to cover 700 locations in the UAE, Kuwait, Bahrain, and Turkey.
- Led multi-stakeholder projects with a leading FMCG company, P&G Dubai, for four years. Led cross-functional teams to advance strategic planning of a new emerging channel and achieved a net sale of $10.2 million in 2014.
- Trained by Former Vice-President, Al Gore in Summer 2018 to become a Climate Leader. Since then, I have been giving presentations and connecting with local communities to support the global fight for climate solutions.

### Experience

- Managing Partner, Snappcard, Istanbul, Turkey
- Head of Business Development, Snappcard, Dubai, United Arab Emirates
- Channel Manager, Transmed – P&G MENA Distributor, United Arab Emirates

### Education

- Master of Engineering Leadership in Green Bio-Products, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Chemical and Biological Engineering, Koc University, Istanbul, Turkey

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**Eisuke Takahisa**

I am an organic and analytical chemist with a background in the flavor and fragrance industry. Through my 13 years of professional experience, I acquired diverse skills working with various clients in the functional food, cosmetics, and household products sectors. The compact industry structure mandates overarching knowledge from R&D phase to large-scale production which equipped me with engineering knowledge as well. I have also worked in a managerial position and as a group leader. My passion is to make the consumer goods sector more sustainable.

### Key Accomplishments

- Acted as lead manager in developing a microcapsule business, from the conceptual stage through lab bench-scale research, up to factory production at 1 MT scale. Microcapsules are friction-sensitive, on-demand micro containers filled with functional materials.
- Invented and patented a molecular distillation process that simultaneously enriches 6-Shogaol content in ginger extracts. The process retains the natural status of the extract, and the enriched products serve effective as swallowing aids in older adults’ ingestion of food and pills.
- Authored 18 articles in peer-reviewed academic journals, nine patents and a chapter in a book. Discovered and patented five new sulfur-containing compounds found in food aroma using a self-designed flash vacuum pyrolysis apparatus.

### Experience

- Senior Researcher & Manager, T. Hasegawa Co., Ltd, Tokyo, Japan
- Senior chemist, T. Hasegawa Co., Ltd, Tokyo, Japan
- Certified English-Japanese interpreter, working in various engineering fields, Globally

### Education

- Master of Engineering Leadership in Green Bio-Products, University of British Columbia, Vancouver, Canada
- Dr. rer. Nat. (Ph. D.) in Analytical Chemistry, Technical University of Munich, Munich, Germany
- Master of Engineering in Chemical Engineering, Tokyo Institute of Technology, Tokyo, Japan
- Bachelor of Engineering in Biomolecular Engineering, Tokyo Institute of Technology, Tokyo, Japan
HIGH PERFORMANCE BUILDINGS

Graduates have acquired a mastery of sector-specific skills within energy systems, green architecture and energy modelling applications to be able to design state-of-the-art building systems. The integration of leadership skills within technical topics including data-driven analytics, regenerative design and strategic innovation positions students as highly valuable leaders who are equipped to excel in the building sector.
Jacky Boisjoli

I am enthusiastic and passionate about improving the built environment through thoughtful design, construction, and changing the way people view the buildings in which they live, work, and play. I bring creative solutions and new ways of thinking to existing problems. I am not afraid to try new things or to speak my mind. I communicate easily with people and would like to use this skill to make the world a healthier place to live.

Key Accomplishments

- Assisted in the mechanical design, specifications, and interdisciplinary coordination for 20,000 SF tenant fit-out and was responsible for site supervision of mechanical and electrical disciplines.
- Participated in the site supervision for mechanical and electrical disciplines for Walmart Canada Corp. Target retrofits for three locations totaling $8 million.
- Documented Scientific Research and Economic Development (SR&ED) for an innovative application of air filtering in a food court in the Quebec City building sphere.

Experience

- Junior Engineer, Stantec, Quebec City, Canada
- Manufacturing Engineer OEM (EIT), Price Mechanical, Winnipeg, Canada
- Industrial Engineer (EIT), Price Industries, Winnipeg, Canada

Education

- Master of Engineering Leadership in High Performance Buildings, University of British Columbia, Vancouver, Canada
- Bachelor’s in Mechanical Engineering, Université de Sherbrooke, Sherbrooke, Canada

Shirazeh Dabiri

I am an architect with seven years of experience in the construction of architecture works, urban design and planning. I have expertise in sustainable architecture, energy-efficient building design and project management. I have strong creativeness in aesthetic and livable design, as well as practical urban spaces. I have worked on international projects in varied cultural contexts and challenges. I am also a collaborative person with innate team-building ability and sustainable business acumen.

Key Accomplishments

- Expert in affiliated building construction administration codes and design specifications.
- Completed the development and construction of two residential buildings as the lead architect in Kish, Iran: Khorsid Complex and Iranian Complex, covering an area of 212,000 ft² and 187,000 ft² with 600 units combined.
- Co-wrote municipal zoning code and audited compliance in structure plans of Kish Island. Approved business licenses and permits for four 5-star hotels and four commercial malls out of more than 1,000 applications.

Experience

- General Manager at Vivace Arch Construction Group, Shiraz, Iran
- Lead Architect at Omran Payvar Kish Company, Kish/Shiraz, Iran
- Comprehensive Plan Lead Architect and Consultant at Kish Free Zone Organization, Kish, Iran

Education

- Master of Engineering Leadership in High Performance Building, University of British Columbia, Vancouver, Canada
- Master of Art in Urban Design, University of Tehran, Iran
- Bachelor of Science in Architecture, Islamic Azad University of Shiraz, Iran
Tomy Stephan Dibanda

I am an experienced civil engineer with 15 years of innovation in the construction industry. I possess a keen interest in energy management demonstrated through expertise in energy efficient technologies and green building energy systems. I combine deep understanding of contemporary buildings design and construction practices with experience in high performance buildings’ certification processes (LEED, Passive House, Living buildings). I am a Professional Engineer with PMP® and LEED accreditations, continuously searching for improvement opportunities in processes, service quality and stakeholder’s satisfaction.

Key Accomplishments

- Developed the business case to switch 10,000 streetlights over to LED for the township of Langley. Achieving 60% reduction of energy consumption, over $300,000 annual savings, 2 million tones CO2 emissions reduction and 100% ROI in just 9 years.
- Used data analytics to develop economic feasibility studies and implemented measures that achieved 7% out of $1.2 billion savings on the construction of 340 green-condos in Quebec for PAA Consulting.
- Implemented energy conservation measures and the installation of renewable energy opportunities at facilities (LED lighting, solar panels and geothermal energy), achieving 52% reduction of energy consumption, 34% waste reduction on construction site and development of new building framework.

Experience

- Sustainability Consultant, Township of Langley, Langley, Canada
- Manager, Energy Project, PAA Inc. Montréal, Canada
- Project Manager, Poly Inc. Dallas, USA

Education

- Master of Engineering Leadership in High Performance Buildings, University of British Columbia, Vancouver, Canada
- Certificate in Estimation for buildings construction and renovation, Ecole de Technologie Supérieure, Montreal, Canada
- Bachelor of Engineering in Civil Engineering, Ecole Nationale Supérieure des Travaux Publics, Yaoundé, Cameroun

Charles Lankester

I am a mechanical engineer passionate about sustainability and buildings. I have a clear understanding of the interactions that buildings undergo, and analyzing performance and their environmental impact. I have experience in project management dealing with international teams, and have supervised facilities and technical staff in building operations and maintenance as well as presenting projects, solutions, and achievements to senior staff. I believe in making a positive impact to this world while I am still around.

Key Accomplishments

- Led the installation, commissioning process, and implementation of a treatment plant based on ozone generation, generating savings of $10,000 USD per month over a period of 2.75 years.
- Designed, installed, and operated a storm water system to supply make-up water to cooling towers, saving 90 m3 of potable water per day.
- Upgraded a Deionize Water System by feeding it with reverse osmosis water from another system, reducing operational costs of canister replacements with savings of $4,000 USD per month.

Experience

- Sustainability Scholar, University of British Columbia, Vancouver, Canada
- Project Transfer Engineer, Abbott (formerly St. Jude Medical), San Jose, Costa Rica
- Facilities Engineer, Abbott (formerly St. Jude Medical), San Jose, Costa Rica

Education

- Master of Engineering Leadership in High Performance Buildings, University of British Columbia, Vancouver, Canada
- License in Mechanical Engineering, University of Costa Rica, San Jose, Costa Rica
- Bachelor’s in Mechanical Engineering, University of Costa Rica, San Jose, Costa Rica
Oscar Valdés
linkedin.com/in/oscar-valdes

A skilled and accountable engineer I am passionate about the cross-disciplinary approach required to overcome obstacles and design more resilient and sustainable buildings. I have five years of experience of working in building design and construction, during which I also cultivated my leadership and business development skills by working directly with clients. My knowledge in both construction and energy systems, have allowed me to see every new and existing building as opportunities to reduce human impact on the environment and create value for society.

Key Accomplishments

- Participated at different levels in the design of over 100 projects including office, commercial, industrial and residential buildings in Guatemala.
- Led a team of 10 CAD technologists with a retention rate of 100% over the last two years.
- Studied the applicability of a community-wide energy budget for Single-Family Homes for the District of West Vancouver.

Experience

- UBC Sustainability Scholar, District of West Vancouver Planning and Development Services, West Vancouver, Canada
- Structural Engineer and CAD Manager, INCCO, Guatemala City, Guatemala

Education

- Master of Engineering Leadership in High Performance Buildings, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Civil Engineering, Universidad Del Valle, Guatemala City, Guatemala
INTEGRATED WATER MANAGEMENT

Graduates are prepared with a complex toolset of technical skills and business knowledge to lead in roles that pertain to water resources, hydrology, treatment and distribution, and waste management. The combination of training in leadership and business, paired with specialized course work and interdisciplinary exploration of advanced engineering theories and real-world applications in topics ranging from coastal engineering to water pollution control has these graduates poised to become leaders in this field.
Jennifer (Mariko) Kobayashi

I am a highly energetic individual with a diverse background in trades, engineering, and entrepreneurship since graduating from the University of Alberta in 2008. I have spent a majority of the past decade working for Shell Canada in various roles including: project engineering, process engineering, and operations. I also acquired businesses on Vancouver Island which inspired in me a new passion for water sustainability and security, thus leading me to the MEL – Integrated Water Management Program.

Key Accomplishments

- Led operation teams through multiple multi-million dollar process shut downs and turnarounds, received Standard of Excellence recognition.
- Shell Albian Sands’ only female engineer historically to have achieved the process Distribution Control System (DCS) certification, frontline controller for the continuous heavy oil process that contributes to 10% of Canada’s oil production output.
- Owned and operated two successful food retail businesses located in Victoria, BC. Grew second business 300% in sales revenue within two years after initial buyout.

Experience

- Operations, Shell, Fort McMurray, Canada
- Process Engineer, Shell, Fort McMurray, Canada
- Owner and Operator, Kojak Enterprises, Ltd., Victoria, Canada

Education

- Master of Engineering Leadership in Integrated Water Management, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Petroleum Engineering, University of Alberta, Edmonton, Canada
- 4th Class Power Engineering, British Columbia Institute of Technology, Vancouver, Canada

Dan Xie

I am a proven analytical, detail-oriented candidate, with independent problem-solving strengths and expertise in stakeholder engagement, operations and project management. I have nine years experience working for the World Bank, where I was deeply involved in diverse operational work within the Sustainable Development department including working in the water, energy, rural, and urban sectors. I am knowledgeable of full project cycles, including conceptualization, preparation, implementation and impact evaluation. I am a team leader and player dedicated to motivating and mentoring colleagues within multicultural settings.

Key Accomplishments

- Prepared and supervised of 20 water projects from 2014 - 2017 in China. Assisted Task Team Leaders in delivering four loan projects to the Board (FY 15-17) with total amount US $609.5million in FY16-17.
- Prepared Wenchuan Earthquake Recovery Project, the first World Bank Emergency Loan in China with loan amount US $720 million. Supported the task team for the fast track preparation of the project, from identification to effectiveness within one year.
- Received the World Bank East Asia Pacific Vice President Unit Team Award for China Hai Basin Water and Environment Management Project in 2012.

Experience

- Program Associate, Water Global Practice, The World Bank Group, Beijing, China
- Program Associate, Energy Unit, East Asia and Pacific Region, The World Bank Group, Beijing, China
- Team Assistant, Urban and Rural Integration Unit, East Asia and Pacific Region, The World Bank Group, Beijing, China
- Analyst, Public Sector Group, Global Banking, Citibank Co. LTD, Beijing, China

Education

- Master of Engineering Leadership in Integrated Water Management Engineering, the University of British Columbia, Vancouver, Canada
- Bachelor of Science (Hons) in in Mathematics and Management, the University of Manchester, UK
Graduates are uniquely equipped with integrated training in engineering and physics of ship design and broad business and leadership capabilities. They are prepared to manage complex shipbuilding design and procurement programs, and have become fully qualified in ship project management. As a result of instruction ranging from ship hydrodynamics to sustainability and leadership, graduates are ready to assume high-level leadership roles and be of incredible value to any team.
(Abdul) Quadir Abudu

As a competent marine Engineer, I am passionate about technical ship management and most importantly the use of technology, proven operational strategies to reduce the running cost of ships. I am also a protagonist of autonomous ships. I have accrued over five (5) years experience working in various marine related fields. I am equally knowledgeable in classification rules and requirement for new building construction and fleet in service.

Key Accomplishments

- Team member (DNVGL surveyor) in the upgrade of Rig Diyina for Abu Dhabi Oil Company.
- Conducted audits on internal process and procedures as part of change management initiative to investigate accident causes related to life saving appliance particularly rescue boats and davits.
- Established technical procurement plan for ship spares and consumables to ensure compliance with internal standards and reduce bottlenecks in procurement process.

Experience

- Project Marine Engineer, Alion Science and Technology, Vancouver, Canada.
- Fleet Maintenance Engineer, BC Ferries, Richmond, Canada
- DNVGL, Fleet In Service Surveyor, Lagos & Dubai
- Assistant Third Engineer, Rigel ship Management, Liverpool, UK
- Assistant technical superintendent, Sea Transport Services Limited, Lagos, Nigeria

Education

- Master of Engineering Leadership in Naval Architecture and Marine Engineering, University of British Columbia, Vancouver, Canada
- Marine Engineer Certificate of Competency, Liverpool John Moores University, Liverpool, UK
- Bachelor of science Marine Engineering, Regional Maritime University, Accra, Ghana

Rishikesh Raj

I am a maritime professional thoroughly familiar with all aspects of shipboard operations, looking to utilize my engineering and leadership skills to work for innovative and sustainable marine technology.

Key Accomplishments

- Played a crucial role in the planning and execution of numerous dry-dock projects for vessels while onboard.
- Successfully planned and completed numerous planned maintenance projects of critical machinery in a safe and timely manner.
- Completed a rigorous dual undergrad academic program specializing in Nautical Science as well as Marine Engineering developed and fully sponsored by Maersk Line.

Experience

- Marine Engineer, Maersk Line, Copenhagen, Denmark

Education

- Master of Engineering Leadership in Clean Energy Engineering, University of British Columbia, Vancouver, Canada
- B.E Marine Technology in Nautical Science and Marine Engineering, Birla Institute of Technology, Jharkhand, India
Leah Spry

I am passionate about helping people understand each other. I want to build bridges between trades people and management in heavy industry; especially the marine sector. I have been expanding my knowledge of the marine industry for nine years including four years at sea. I enjoy finding innovative solutions to long-standing problems and thrive in environments where challenges are constantly evolving.

**Experience**
- 2nd Assistant Engineer, Marine Engineer’s Beneficial Association, Oakland, USA
- 2nd Assistant Engineer, Hornbeck Offshore Services, Port Fourchon, USA
- Engineering Supervisor, Marriott International, San Diego, USA

**Education**
- Master of Engineering Leadership in Naval Architecture and Marine Engineering, University of British Columbia, Vancouver, Canada
- Bachelor of Science in Marine Engineering Technology, California Maritime Academy, Vallejo, USA
URBAN SYSTEMS

Graduates are prepared to assume the professional responsibilities of managing all facets of urban infrastructure systems and the business acumen to act as a leader in high-level roles. Their education has prepared them to approach infrastructure systems through a societal context that enriches all stages of planning, design, and project delivery. Skills ranging from strategy and innovation to efficient electric power systems poise graduates to be uniquely valuable.
Nikita Bhalla

I am passionate about Smart City Infrastructure and Asset Management projects. Specifically, I adopt a holistic approach, from strategizing, designing to maintaining the infrastructure throughout its life cycle, for sustainable development. I have worked for a year as a Structural Engineer, performing seismic analysis and reinforcement detailing of structural elements. I also have experience working with multi-disciplinary teams and have leveraged my communication and management skills, giving presentations to team leaders, assisting in preparation of engineering reports and compliance sheets (Smart City and Navy Projects).

Key Accomplishments
• Produced earthquake prone designs for R.C.C. buildings and electrical utility foundations using STAAD. PRO, STAAD.Foundation and Excel spreadsheets and supervised draftsmen on the team for preliminary and final structural and architectural drawings in AutoCAD.
• Worked as MEL student on industry projects, such as with City of Richmond as a Project Manager for Asset Management Plan.
• Exceptional academic performance with merit scholarships for both master’s degree, Masters of Structural Engineering, Thapar University - CGPA of 10/10, ranked first in cohort of 40 students (Punjab, India).

Experience
• Engineer I, AECOM Asia Pvt. Ltd., Gurgaon, India

Education
• Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
• Master in Structural Engineering, Thapar University, Patiala, India
• Bachelor in Civil Engineering, Guru Nanak Dev Engineering College, Ludhiana, India

Andrew O. Egbase

I am a professional engineer with deep experience and expertise in multiple industries; finance, engineering, consulting, oil and gas. Flexible adjusting to changing priorities and varied workloads with continuous learning and development initiatives. I am strong providing leadership and facilitating capital planning, business operations, project development and engineering of infrastructure systems. I am proficient applying asset management theory, environmental stewardship; business and financial principles for developing strategy for long range planning, performance evaluation, commissioning and turn-over of infrastructure systems; utilities, buildings and plants.

Key Accomplishments
• Developed financial model utilized to generate a 25-year capital reserve funding for the City of Richmond, Vancouver (Stevenson area) sewer asset management plan – a 2018 MEL Urban System project.
• Developed and facilitated implementation of condition assessment program for an Oil & Gas company that ties into their asset mgt. program; and was nominated for company’s President’s Operational Excellence Award.
• Achieved regional best business operation risk audit score of 4/3 on a 5/5 scale for a financial institution; and a group spot award for responsive and trustworthy.

Experience
• Field Engineer, Randstad Engineering/Ministry of Municipal Affairs, Edmonton, Canada
• Reliability Engineer/Project Lead, Suncor Energy/Cronos Consulting, Fort McMurray, Canada
• Operational Risk/Project & Channels Manager, Standard Chartered UK, Lagos, Nigeria

Education
• Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
• Master of Engineering (Civil-Water Resources) University of Benin, Benin City, Nigeria
• Bachelor of Engineering (Civil), University of Benin, Benin City, Nigeria

To connect with candidates or send us a job posting, please email hire.mel@ubc.ca or visit mel.ubc.ca/hire.
Colin Jeffery

Throughout the Masters of Engineering Leadership program as well as in my career, I have a focused on continuous improvement and sustainable development. I am passionate about working together to find solutions to everyday challenges. Through my work in quality assurance and project management, I have always strived to meet project objectives by maximizing the talents of the team. Having experience with a wide range of projects, I look to take a holistic view to any new challenge and work to find sustainable, long-term solutions.

Key Accomplishments

• Reviewed and identified key building characteristics that have used to improve the energy efficiency of homes in North Vancouver to meet BC Step Code requirements.
• Worked with a project team to identify key characteristics and locations of an expanded public Wi-Fi network in the City of New Westminster resulting in improved community engagement.
• Successfully assisted in the management of all stages of construction for over 200MW of renewable energy by ensuring project met quality requirements, budget and schedule constraints.

Experience

• Sustainability Scholars, City of North Vancouver, North Vancouver, Canada
• Quality Assurance Technician, Wolf Steel, Barrie, Canada
• Project Engineer, HB White Canada, Brampton, Canada

Education

• Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
• Bachelors of Mechanical Engineering and Management, University of Ontario Institute of Technology, Oshawa, Canada
• Certificate of Fundamentals of Quality Assurance, Humber College, Toronto, Canada

Nathalie Kip

With a unique background in architecture, urban planning, and engineering leadership, I apply a holistic approach to the challenges and opportunities of the interdependencies involved in community development. Along with my expertise in sustainability and municipal government, I have diverse experience in managing projects (including people, procedures, and engagement). Leveraging my communication skills, I have successfully worked alongside senior governmental leaders and community members to implement a range of policies at the municipal level.

Key Accomplishments

• Established enhanced municipal design standards for public projects, public realm landscaping and scenic byway development which earned notable mention by the Scenic City Certification Program and The International Dark-Sky Association.
• Created online city-wide land use and zoning map applications for public use.
• Implemented department-wide procedural change which decreased staff time to create Council reports by 71.

Experience

• City Planner, City of Horseshoe Bay, Horseshoe Bay, USA
• Program Manager, The University of Texas at Austin Office of Sustainability, Austin, USA
• Graduate Teaching & Research Assistant, The University of Texas at Austin, Austin, USA

Education

• Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
• Master of Science in Community & Regional Planning, The University of Texas at Austin, Austin, USA
• Bachelor of Science in Architecture, Andrews University, Berrien Springs, Michigan, USA
Amy (Zengyu) Lu

I am an architect with more than eight years of work experiences in highly competitive international real estate development and building industries. I have expert knowledge of architecture and site planning, as well as an innate talent for creativity and productivity in design, analysis, and management. I am working on improving city’s liability with sustainable buildings, focusing on project management, strategic planning, and asset management.

Key Accomplishments

•Managed over 8 international design consulting services and more than 4 construction site works.
•Portfolio spans over 20 different international architecture consulting projects, including development of residential communities, hospitality buildings, commercial buildings, stadiums and museums, for the sizes ranging from 2,000sqm to 500,000sqm, in different project phases.

Experience

•Design Director, SJD Ltd, Beijing, China
•Architect, SJAT Architecture & Engineering Design Co., Ltd, Beijing, China
•Architect Assistant, SJAT Architecture & Engineering Design Co., Ltd, Beijing, China

Education

•Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
•Bachelor of Architecture, Beijing University of Civil Engineering & Architecture, Beijing, China

Andrew McLeod

I am a passionate city-builder with a demonstrated history of working privately in the construction and development industry, as well as in municipal economic development. I have strong professional skills in Urban Planning, Land Development, Site Planning, Infrastructure Planning and Feasibility Studies, in addition to Asset Management and Business Finance. I have successfully managed both portfolios and people, with experience overseeing multi-disciplinary teams in order to complete the greenfield land development process.

Key Accomplishments

•Managed and coordinated the development and delivery of over 4,500+ residential units in the Greater Toronto-Hamilton Area (GTHA) including both low-rise and high-rise housing.
•Awarded the IBI Group Award for Professional Excellence following a studio project analyzing the proposed changes to the City of Toronto’s right-of-way occupancy fee structure, in which my team and I proposed a new fee metric to our client and the City of Toronto.
•Delivered a 10-year Public Wi-Fi deployment strategy for the City of New Westminster in order to increase citizen engagement by using free public hotspot technology in high-pedestrian traffic areas.

Experience

•Project Coordinator – Land Development, Cortel Group, Vaughan, Canada
•Economic Development Assistant, Township of King, King, Canada
•Economic Development Intern, City of Vaughan, Vaughan, Canada

Education

•Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
•Bachelor of Urban & Regional Planning, Ryerson University, Toronto, Canada
Sam S. Starr

I am passionate systems professional transitioning from logistics and supply chain to urban infrastructure systems. I am excited about the future and multi-modal intersection of active transportation and public transportation infrastructure. I am also an experienced leader in customer solutions design, strategy, program management and systems engineering, with a solid history of team, partner, and client relationships. I have leveraged my systems and relationship skills to build, scale, and manage sustainable programs and organizations, all while improving the bottom line and the overall customer experience.

Key Accomplishments

- Developed design concepts based on value engineering principles, Active Transportation design standards, and Complete Streets for a Smart Cities urban design project and proposal (“Blatchford Redevelopment Project” in Edmonton, Alberta).
- Consulted with companies across the globe from start-ups to Dell Inc. for the solution design, implementation, and program management of their warranty service supply chains.
- Reduced the split-shipment failure rate 33% within one year and 75% over three years, by creating and leading a 14-person cross-functional team for multi-modal automotive industry shipping solutions.

Experience

- Final Mile Delivery Program Manager, Fleetgistics, Washington D.C., USA
- Sr. Associate in Global Logistics, Advanced Leadership Development Program, Axon, Scottsdale, USA
- Sr. Manager of Solutions Engineering, Flash Global, Seattle, USA

Education

- Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
- Master of Science in Engineering in Systems Engineering, University of Pennsylvania, Philadelphia, USA
- Bachelor of Science in Engineering in Electrical Engineering, University of Pennsylvania, Philadelphia, USA

Edward Yana

I am a civil engineering professional with four years of expertise in construction and mining projects, working in the technical and project management departments. With great knowledge in construction management, lean construction, urban systems engineering, asset management, project delivery, and sustainability planning. A self-driven and committed individual, I am eager to efficiently contribute to the development of public and private projects.

Key Accomplishments

- Successfully managed the supply of critical construction materials for Tunnel Callao Project, with a value of US$20 million.
- Reduced construction costs in US$3 million through engineering and supply management optimization.
- Significantly improved the performance and accuracy of cost reporting for Rio Tinto’s board of directors.

Experience

- Technical Office Engineer, Tunnel Callao Consortium, Lima, Peru
- Project Controls Assistant Engineer, Rio Tinto Ltd., Lima, Peru

Education

- Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
- Bachelor of Civil Engineering, Peruvian University of Applied Sciences, Lima, Peru
Soham (Xiaohan) Zhang

I am a graduate engineering student at UBC with a background in design, planning and business. My experience in having lived and worked in three foreign countries has made me what I am today. I have strong execution, flexibility, resilience, and practical skills, which has been shown in my previous work. Besides that, my design and technical skills also have been developed from relevant work experience.

Key Accomplishments
- Successfully held major events to engage customers in Flying Solo retail store and helped the revenue increase at least 20% after every event.
- Researched and designed a drinking water filtering and monitoring system for the severe water-shortage areas in Africa.
- Knowledgeable of concepts of Urban Planning and Value Engineering in urban infrastructures.

Experience
- Assistant Design Manager, Flying Solo, New York City, USA
- Product Design Engineer, General Electric, Beijing, China
- Project Coordinator, ZWQD Construction, Beijing, China

Education
- Master of Engineering Leadership in Urban System Engineering, University of British Columbia, Vancouver, Canada
- Bachelor of Urban planning, Ewha Womens University, Seoul, South Korea
- Bachelor of Industry design, Beijing University of Technology, Beijing, China

Huan Wang

The combination of both quantitative and analytical skills led me to choose Electrical and Electronic Engineering as my undergraduate programme at Imperial College London. Its rigorous academic curricula have equipped me with a strong background in applied mathematics and engineering, while my MSc in Environmental Technology and Sustainable Business has built up my managerial knowledge in economics and business. My decision to pursue a Master of Engineering leadership in Urban System at University of British Columbia is based on a thorough analysis of my personal interests, my work experiences and my future career goals. My career goal is to become a professional consultant in any public or private sectors to explore further in Urban Planning, Infrastructure Management and Feasibility Studies.

Key Accomplishments
- Delivered an electric smart meter infrastructure deployment strategy for the City of New Westminster in order to increase energy efficiency by providing critical information on the status of the power system and loads across the entire network.
- Conducted sanitary sewer system asset management plan for Steveston, the City of Richmond through “Seven What’s” assessment framework to fully understand asset condition and provide optimal implementation strategies based on projected remaining life cycles.
- Developed design concepts for smart integrated technology development based on value engineering system in Edmonton Blatchford West Site Development Project.

Experience
- IGCSE Lecturer, Shenzhen College of International Education, Shenzhen, China
- Urban Design Management Assistant, Harrison & Wen Company LTD, Hong Kong, China

Education
- Master of Engineering Leadership in Urban Systems, University of British Columbia, Vancouver, Canada
- Master of Science in Environmental Technology, Imperial College London, UK
- Bachelor of Science in Electrical and Electronic Engineering, Imperial College London, UK