October 2019

Dear Industry Supporter,

Northwestern University’s Master of Engineering Management (MEM) Program is pleased to introduce the 2019-2020 list of students to consider for summer internships and/or full-time positions.

In addition to the following student resumes, we have included information regarding the Master of Engineering Management Program at the beginning of this book in order that you may assess the rigor and expectations of the program.

Some important things to consider when recruiting MEM students for internships are as follows:

- Northwestern University’s Summer 2020 dates are from Monday, June 15 to Friday, September 18
- The minimum expected length of internship is 10 weeks, full-time
- Compensation is negotiable between the intern and employer

Please feel free to contact the students directly to learn more about their qualifications and interests. To learn more about the Master of Engineering Management Program, please visit our website at mem.northwestern.edu or contact our Associate Director, Stephen Tilley.

Sincerely,

Mark Werwath, PhD, PMP
Clinical Associate Professor
Director, Master of Engineering Management Program
Northwestern University
m-werwath@northwestern.edu

Stephen M. Tilley
Associate Director
Master of Engineering Management Program
Northwestern University
stephen-tilley@northwestern.edu
The Master of Engineering Management (MEM) program is designed for engineering and science professionals who want to develop core management and leadership skills while staying on the cutting edge of technology. The curriculum empowers engineers to communicate in the language of business and to move from thinking tactically to thinking strategically. Combining the core management principles of an MBA with comprehensive quantitative and analytical tools, MEM prepares engineers and scientists for top leadership roles in today’s technologically sophisticated companies.
THE MEM PROGRAM

PROGRAM FEATURES

Degree earned in two to three years (part-time) or nine to 15 months (full-time)

Combined intensive training in engineering, technology, and business

Evening and Saturday morning classes to accommodate working professionals

Collaboration with other great Northwestern resources: Kellogg School of Management, Farley Center for Entrepreneurship and Innovation, and other engineering professional master’s programs. Northwestern University is a member of the Master of Engineering Management Programs Consortium (MEMPC), a group of highly recognized professional graduate engineering management programs that is working to raise awareness of engineering management. Other members include Cornell, Dartmouth, Duke, Johns Hopkins, MIT, Purdue, Tufts, and USC.

FORMAT

International and full-time students must start the program at the beginning of the academic year (fall quarter). These students can earn the MEM degree in nine to 15 months.

Part-time students may take courses as their schedules allow, and typically complete the program in two to three years.

The program must be completed within six years.

Classes are held on the Evanston campus, Mondays through Thursdays from 6:30–9:30 p.m., plus one class on Saturday mornings from 9 a.m.–12 p.m.

STUDENT PROFILE

MEM students are scientists, engineers, and technical professionals from diverse corporate backgrounds. Students are those with a strong interest in technology, but want to gain business and leadership skills to become engineering managers, entrepreneurs, or intrapreneurs.

Approximate number of students: 80 (15 full-time and 65 part-time)

Average class size: 20

Average age: 31

Average years of employment: 6

Percentage with advanced degrees: 15

Chicago-area companies represented in the program: >50
PROGRAM REQUIREMENTS

DEGREE REQUIREMENTS

Students earn a Master of Engineering Management degree by completing 12 courses. Students must earn a GPA of 3.0 or better to earn the MEM degree.

CURRICULUM

Coursework includes seven required MEM core courses, two advanced engineering methods courses, and three electives. Two of the three electives may be non-MEM courses. Additionally, students may attain an optional concentration in Managerial Analytics, Design and Innovation, or Project and Process Management.

Required Core Courses
- Engineering Management (gateway course)
- Accounting for Engineers
- Financial Issues for Engineers
- Marketing Issues for Engineers
- Decision Tools for Managers
- Leadership and Organizational Behavior
- Strategic Management for Engineers (capstone course)

Advanced Engineering Methods (select two courses)
- Computer Simulation for Risk & Operations Analysis
- Product Development for Engineers
- Project Management
- Supply Chain Management
- Managerial Analytics
- Operations Excellence
- Systems Engineering and Architecture
- Organizing for Innovation
- NUvention: Medical (counts as one course)
- NUvention: Web (counts as one course)
- NUvention: Energy

Electives (select three courses)
- Technical Entrepreneurship
- Negotiations for Engineers
- Selected courses from the MSIA program
- Selected courses from the MPM program
- Selected courses from the MSIT program
- Selected Kellogg School of Management courses
- Selected Learning and Organizational Change courses

ADMISSION REQUIREMENTS

Students are chosen based on their undergraduate record, job progression, management and leadership potential, strong letters of recommendation, and their potential contribution to the overall program experience. In order to be considered for the MEM program, the following application requirements must be met:

A bachelor’s degree in engineering or STEM disciplines

GMAT or GRE scores (waived for those with three or more years of technical work experience)

A GPA of at least 3.0 on a 4.0 scale from an undergraduate program in engineering or a related scientific or technical field

Three letters of recommendation that attest to the candidate’s academic or work performance as well as leadership potential

Part-time students may apply on a rolling basis. For full-time and international students, the application deadline is in the early winter quarter.
**FACULTY**

The program features outstanding faculty from Northwestern Engineering’s highly rated Department of Industrial Engineering and Management Sciences (IEMS), ranked fourth in 2016 for graduate education by *U.S. News & World Report*; and experts drawn from local industries.

Faculty members are leading practitioners and scholars of distinction, and are well known for their experience and research. MEM faculty members regularly serve as consultants to industry and government, and their familiarity with current trends and challenges enables them to provide MEM students with cutting-edge approaches to management problems and solutions.

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**CAREER DEVELOPMENT**

All MEM students have access to the Engineering Career Development and Northwestern Career Advancement offices, and graduates are encouraged to join the Northwestern Alumni Association for key career resources.

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**PART-TIME STUDENTS**

MEM graduates who maintain their current employment while completing the program on a part-time basis are typically given significant raises and promoted to positions where they manage larger teams or take on more sophisticated project management responsibilities.

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**FULL-TIME STUDENTS**

One-hundred percent of MEM’s most recent graduating class of full-time students who sought a summer internship or project acquired one during the program. In recent years, nearly 90 percent of full-time graduates found employment within six months of graduation.

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**STUDENT/ALUMNI ACTIVITIES**

The MEM program, in collaboration with the Student Advisory Board, sponsors activities to develop leadership opportunities for current students and alumni, such as an annual simulation competition and frequent career networking events. Each September, alumni, students, and faculty celebrate together during an annual Northwestern University football game and tailgate party. The MEM program also encourages alumni to sponsor projects within their companies for the undergraduate design program.

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**STUDENT SUPPORT**

Because most MEM students work full-time, often in positions with significant engineering and management responsibility, we seek to make the logistics of the program as manageable as possible. The program takes care of routine administrative issues, such as class enrollment and liaison support with other Northwestern University departments, including student accounts, financial aid, and the International Office.

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**CONTACT**

Information sessions to discuss the program and answer questions are held throughout the year. Sessions are held both in person and online. Join a session for more information, or email mem@northwestern.edu with specific questions.
Syed M Nabeel Abid
832-738-9458 | syedabid2020@u.northwestern.edu | 643-2 Library Pl, Evanston, IL, 60201

Education

Northwestern University
Master of Engineering Management
Concentration in Managerial Analytics

University of Texas at Austin
Bachelor of Science in Petroleum Engineering
Awarded Walter B. Smith Jr. and IADC scholarship for academic excellence


Software Proficiency
Advanced Excel, Minitab, Petrel/Eclipse, CMG, MBal, PVTP, PROSPER, Kappa Saphir, OFM, and Matlab.

Engineering Experience

United Energy Pakistan
Reservoir Engineer
Karachi, Pakistan
2014-2019
• Built robust static and dynamic reservoir simulation models, using software like PETREL/Eclipse to improve the production and planning of oil and gas fields
• Conducted a comprehensive study on optimum timelines and locations of available compressors to maximize gas recovery and revenue, leading to the utilization of idle compressors effectively
• Designed a waterflood project and managed its implementation to improve sweep efficiency and pressure maintenance, which led to an increase in the fields oil reserves by approximately 40 percent
• Estimated and reported field reserves using production history matching, decline curve analysis and simulation models per SPE-PRMS guidelines
• Worked with multi-disciplinary teams which included geologists, geophysicists and economists to identify reserves enhancement opportunities and increase the field’s asset value

University of Texas
Financial Assistant
Austin, TX
2011-2012
• Researched past cost and expenses reports to demonstrate trends in UT-Extension related finances.
• Managed cash reports and maintained checks registry and expenses incurred by the university for later reconciliations
• Utilized Excel to organize financial records from past 10 years and streamlined the process used to record entries.
• New improved systems were estimated to improve time efficiency by 5%

BP
Petroleum Engineering Intern
Karachi, Pakistan
2012
• Analyzed pressure build up tests on KAPPA-Saphir to determine reservoir properties, such as pressure and permeability and structural and stratigraphic boundaries
• Evaluated MDT data to determine fluid contacts and mobility trends to create a permeability distribution model for the reservoir

Leadership and Volunteer Experience

PEC Education Center
Teacher
Karachi, Pakistan
2013
• Developed work plans and taught English, Physics and Chemistry to tenth graders in underprivileged areas; helped develop student’s proficiency in English by arranging public speaking exercises and debates

LeaderShape Camp
Camp Facilitator – Team Leader
Austin, TX
2012
• Helped build community and leadership skills by facilitating discussions to promote exchange of ideas amongst participants
Lynda Budiman

+1 773 939 4538
LyndaBudiman2020@u.northwestern.edu
linkedin.com/in/lynda-budiman

SUMMARY
Currently pursuing a Masters in Engineering Management at Northwestern University. A former Technology Consulting Manager with eight years of experience in the Energy industry, focusing on SAP Supply Chain system integration, process improvements and digital advisory. Highly versatile & adaptable in a fast-paced dynamic environment, strives for excellence, a strong people developer and a passionate team player.

EDUCATION
Northwestern University, USA
M.S. in Engineering Mgmt. Expected Dec 2020

Purdue University, USA
B.S. in Aeronautical & Astronautical Engineering May 2010 | CGPA: 3.42/4.00

KEY SKILLS
SAP Supply Chain Management
SAP Supplier Relationship Mgmt.
SAP Fiori
Technology & Digital Advisory
Project Management
Integration Management
Business Analyst
Process Design & Improvement
Business Readiness/Change Mgmt.
Business Development & Sales
Capability Development

WORK EXPERIENCE

ACCENTURE (Feb 2011 - Mar 2019)

Aug 2017 - Present
Integration Manager | Lead Business Analyst
SAP Simplification, International Oil & Gas Company
- Managed cross-functional team in simplifying and standardizing Upstream processes and jobs to establish a sustainable self-service job-based SAP security framework, delivered through agile delivery methodology and impacting 19,000 users globally.
- Increased Accenture team size by five-folds in 7 months and revenue by 400% (USD 1M for 2018).

Mar 2017 - Jul 2017
Project Manager | Business Analyst
SAP Fiori, International Oil & Gas Company
- Spearheaded SAP Fiori evaluation and proof of concept for Supply Chain processes within an agile delivery framework which resulted in the assessment being considered for product updates by SAP.

Jan 2015 - Feb 2017
Test & Transition-to-Support Mgr | Business Analyst
OCR & SAP Workflow, International Oil & Gas Company
- Successfully executed 2 roles simultaneously in implementing Optical Character Recognition (OCR) technology for Invoices and SAP workflow impacting 10,000 users across 30 countries globally, from defining business requirements, designing cross-functional process standardization, to implementation and embedment.
- Established support processes, team and governance with IT leaderships to operate these new technologies in flawless and secure manner, and led post go live support towards stabilization.
- Developed robust test strategy and headed all testing activities with over 120 users globally across multiple time zones.

Oct 2014 - Dec 2014
Project Manager | Business Analyst
Permit Vision Interface, International Oil & Gas Company
- Re-engineered a one-year delayed project by accelerating the implementation of interfaces between core business ERP system to a European operating asset safety application with a team of cross functional resources across 3 regions in the span of 3 months.

May 2011 - Dec 2014
Business Readiness Manager | Business Analyst
SAP Embedment for Capital Project, Intl. Oil & Gas Co.
- Managed business readiness & SAP change management for a non-operating company in their journey to an operating asset.
- Implemented SAP Supplier Relationship Mgmt. applications and Supply Chain automation/functionalities, resulting in standardized and effective business process & manpower services management.
- Analyzed and embed continuous improvement in SAP Supply Chain and Capital Project mgmt. through data analytics, defining KPIs, cross-functional process improvements and automation.

PEOPLE & CAPABILITY DEVELOPMENT

FUEL Program Lead
Led a team of 5 for a capability development program for client & Accenture

Career Counselor to 4 Accenture employees


Portfolio Lead KLRC
Vice President KLRC

President KLRC

NB: KLRC is an Accenture firm-wide social club
PARTH CHOKSI
151 N Michigan Ave, Unit 1115, Chicago, IL 60601
ParthChoksi@u.northwestern.edu | +1 (224) 716-3786 | www.linkedin.com/in/parth-choksi

EDUCATION

Northwestern University, Evanston, IL
Master of Engineering Management. Recipient of the Albert H. Rubenstein Memorial Fund Scholarship
Courses: Product Management, Designing Product Interactions, Decision Tools for Managers

IIT Bombay, Mumbai, India
Dual Degree with Bachelor of Technology in Mechanical Engineering & Master of Technology Computer Integrated Manufacturing
Cumulative GPA - 8.16/10
1st author of a Research Paper, part of University Swimming Team, Department General Secretary & Student Mentor for freshman

ENTREPRENEURIAL JOURNEY

Meraki Studio, Mumbai, India - One of India’s first and biggest VR Studios
Co-Founder - Head of Product, Technology & Marketing; led successful exit of the company in an all-cash deal
Technology Innovations & Consulting:
• Spearheaded development and integration of technology-based innovations and solutions - VR camera rig design and prototype, camera robot, drone attachment rigs, post-production, and interactive application development workflows
• Established XR consulting services with a 100% conversion of proposals to solution implementation
Sales Strategy & Business Development:
• Engaged with CXO’s of 15+ advertising agencies & corporates & conducted workshops on integration of XR tech
• Collaborated with 20+ clients & executed 30+ projects to record a revenue of USD 300,000 (gross profit 70%) in 2 years
Media, Public Relations & Marketing Strategy:
• Formulated marketing strategy; resulted in making Meraki one of most valued Indian VR brands & top-ranked on Google Search
• Featured in articles in 22 national & international newspapers & magazines including front-page articles in national dailies
• Served as VR, AR, MR evangelist and influencer; delivered talks and presentations in Universities and Technology events

Meraki Training - One of world’s first VR industrial training platforms
Head of Product & Operations:
• Established the business plan, product design, and developed a VR Training subscription-based platform for industrial safety
• Partnered with a top global FMCG company, deployed 3 modules in multiple languages to train over 1000 shop floor workers

LevoDrive, Mumbai, India - Premium intra-city bus transport
Co-Founder - Head of Operations
• Developed an application serving over 350 customers; managed bus operations, vendors & tie-ups with businesses

PROFESSIONAL EXPERIENCE

Star Sports, Mumbai, India - A fully owned subsidiary of The Walt Disney Company
Assistant Manager, Product - Leading Product Innovation Lab, responsible for development of in-house technologies & solutions
• New Products: Conceptualized and spearheaded Automatic Highlight generation and Optical Tracking using AI (ML & CV)
• Product Launch: Integrated Unreal Engine based Virtual Studio for pre and post shows, unveiled during Cricket World Cup 2019
• Strategic Partnerships: Negotiated a long-term partnership with a Computer Vision Lab to develop Sports Tech patents & IP’s

ITC Ltd., Saharanpur, India
Asst. Engineer - Projects & Stores
• Managed and led 10 CAPEX projects worth USD 17 million simultaneously, awarded Outstanding Rating (5/5)
• Nominated as founding core team of ITC’s Centre of Excellence for Renewable Energy by top management
Leadership and Initiatives:
• Collaborated with CXO’s to establish a solar power policy, played an instrumental role in setting-up multiple solar power plants
• Negotiated & liaised with the State Government & Regulatory Commission for a favorable Open Access policy for Solar
Project Management, Negotiations & Data Analysis:
• Off-site Solar Power Plant (10 MWp- USD 12 Mn): Established a Request for Proposal targeting negotiations with 20+ vendors
• Rooftop Solar Power Plant (852 kWp- USD 1.5 Mn): Managed a team of 35 for design, installation and commissioning of Rooftop Solar Power Plant in a 100 year old Factory leading to savings of USD 7.5 Mn with IRR>15%
• Factory Infrastructure Expansion (USD 1.6 Mn): Planned capacity estimate based on design calculations in line with inventory norms; headed a team of 50 for design and construction of a warehouse for finished goods (1,550 Sqm)

SOFTWARE SKILLS
Adobe: Photoshop, After Effects, Premier Pro; Final Cut Pro; Unity3D | C, C++, Java, Python | HTML
BRANDON HSU
1630 Chicago Ave APT 810, Evanston, IL 60201
brandonhsu2020@u.northwestern.edu | (650) 766-9068

CAREER INTEREST: Looking to pivot into product management role specifically in the tech sector

EXPERIENCE

Payload Production Manager May 2019 - Aug 2019
Maxar Technologies - Space Solutions (formerly SSL) Palo Alto, CA
Managed payload engineering team on multi-frequency band satellite program. Responsible for communication payload and TC&R subsystem performance and production
- Collaborate with engineering managers of other functions to reach program milestones on time
- Develop payload team schedule to maintain workflow
- Negotiated test reductions and worked with customer to optimize testing schemes
- Supervised and trained payload test engineers on the team through communication panel integration
- Resolve customer inquiries, action items, and non-compliant performances

Principal Test & Verification Payload Engineer May 2018 - May 2019
Space Systems Loral (SSL) Palo Alto, CA
Responsible as a payload team lead on S/C-Band satellite, mentor for junior engineers, and process improvements
- Lead troubleshooting effort on performance anomalies and resolve payload integration bottlenecks
- Budgeted communication system payload testing costs for contract proposals
- Worked on phase and power combining payload for radio service satellite
- Created tool documentations, standardized testing requirements, and developed training materials
- Provided analysis for mixer spur products, return loss, power, and gain balancing

Test & Verification Payload Engineer Feb 2015 - May 2018
Space Systems Loral (SSL) Palo Alto, CA
Responsible for communication payload and TC&R subsystem analysis, testing, and health. Ensure both systems are compliant to contract requirements
- Produced system level budgets for noise figure, noise power, EIRP, gain loss, and G/T
- Tested payloads with receivers, LNAs, down&upconverters, traveling wave tube amplifiers, solid state amplifiers, and cavity filters
- Characterized channel performance through noise mound measurements
- Tracked down issues with EMC, poor frequency response performance, and spurious emissions
- Dispatched as on-site engineer for in-orbit testing and completed testing a week ahead of schedule
- Worked on GEO satellites programs for Japanese (JSAT and BSAT), U.S (Intelsat), and Canadian satellite service providers (Telesat)

Associate Communication Systems Engineer July 2014 - Feb 2015
Space Systems Loral (SSL) Palo Alto, CA
Core support for communication system payload engineers
- Assessed design trade-offs for communication payload performance
- Compiled RF unit specifications for internal vendor and subcontract group
- Briefed customer on system design and issues during PDR, CDR
- Reviewed and bought-off RF unit level test data

ACADEMICS

Northwestern University Class of 2020
Master of Engineering Management
Relevant Course Works: Product Management, Negotiations for Engineers, Engineering Management

University of California, Davis Class of 2014
B.S. in Electrical Engineering

SKILLS

Languages: Native fluency in Mandarin Chinese, entry level of Japanese
Frequency Bands: Worked with S, C, X, Ku, Ka-bands
Payload System Architectures: Regional, spot beam, power combining, return and forward payloads
Test Equipments: Spectrum Analyzer, Vector Network Analyzer, Signal Generator, Power Meter
Simulation Tools: Entry level use of Keysight EMpro, Keysight ADS
Programming Languages & Tools: Python, C#, Unity
CHRISY ISSAC
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EDUCATION
Northwestern University, Evanston, IL
Master of Engineering Management. Recipient of the Albert H. Rubenstein Memorial Fund Scholarship
Courses: Decision Tools for Managers, Negotiation for Engineers, Product Management, Engineering Management
Government Engineering College, Trivandrum, India
Bachelor of Technology in Mechanical Engineering
Vice Chairperson of Student Union & Student Mentor for freshman

PROFESSIONAL EXPERIENCE
Cambridge Resources Limited, Chicago - Leading manufacturer and distributor of premium HVAC products
Project Manager for Product Development and Sourcing
- Spearheaded global sourcing team in product development projects coordinating with Engineering, Sales, Marketing, Purchasing and Global Sourcing partners
- **Product Development**: Analyzed customer buying patterns and competitor offerings to drive product sales offerings
- Prepared RFQ’s by considering patent restrictions and UL, CSA and Proposition 65 compliance requirements
- Coordinated with vendors for prototype building, tooling development and sample testing and approvals
- **Project Management**: Established Process maps and RACI charts instrumental in streamlining product life cycle workflow and task delegation; Devised templates, procedures and checklists to reduce lead time and rework in the RFQ process
- Developed product, customer and marketing databases to assist data mining for prospective projects
- Introduced over 1000 SKU’s, increasing the company’s catalog offerings by 32% with an estimated annual sales of $30M

Larsen & Toubro Technology Services Limited, India - Global leader in Engineering and R&D services
Onsite Project Manager & Design Consultant
- Partnered with various engineering clients for executing projects in cost reduction, IME (Improve Modify, Extend), compliance management, product enhancement, workplace safety and quality assurance
- Prepared Project proposals, charters, project plans, work instructions and quality check templates
- Engineered several 3D sheet metal, weldment & assembly models, manufacturing drawings based on industry standards
- Managed engineering product life cycle using various PLM software such as Smart Team, Teamcenter and PTC Windchill

Xylem Inc., Illinois, USA: Leading water technology company
- **Energy compliance (Product Management)**: Managed all cross functional departments and motor vendors in achieving US Motor Industry EISA compliance, integration and alignment across several pump series
- Created key governance documents and roadmaps for future Motor compliance projects
- **Cost saving coupling design for fire pumps (Cost Reduction)**: Facilitated implementation of non-spacer coupling design aimed at reducing assembly time, improving workplace safety and reducing inventory costs, saving over $300k annually
- Programmed configuration rules in E-logia for automated Bill of material generation
- **Optimization of Pump Base and Drip-pan design (Cost Reduction)**: Redesigned pump bases and drip-pan to fit over 400 unique pump-motor configurations to reduce manufacturing and inventory cost by over $200k annually
- **Design of Lifting lugs (Safety and Risk Management)**: Reduced the occurrence of workplace injury claims by devising safer pump assembly handling procedures and engineered lifting lug designs to avert safety risks and workplace injury claims

CNH, Burr Ridge, IL, USA: Global leader in agricultural and construction equipment
- **Planter Routing Harness Design (Product Design)**: Led the design and release of harness routing models including several sheet metal parts, assemblies and manufacturing drawings for CNH Planter 1225/1235/1245/1255/1265 Series
- Integrated VeSys 2-D wiring and harness design into 3-D skeleton models of various planter series
- Delivered the 1 year project worth $400k in consulting revenue, managing a 5 member offshore team of engineers

ITT Enidine, New York, USA: Premier supplier of engineered Industrial Shock Absorbers
- **Engineering Release and Change management**: Led Quality assurance team for the engineering drawings release of newly designed HI & ECO Series Industrial Shock absorbers
- Created project proposal and led a 3 member team to execute a 3 month project valued at $150k in consulting revenue

SKILLS & CERTIFICATIONS
Certifications: Gemba Kaizen , Certification in Computer Aided Design and Drafting
Tools: DMAIC, Pro-E/SolidWorks/AutoCAD, MS Project, MS Excel, Teamcenter and PTC Windchill
SHUBHAM JAIN

EDUCATION

Northwestern University
Master of Engineering Management
Evanston, IL
Sep 2019 - Dec 2020

Visvesvaraya National Institute of Technology
Bachelor of Technology in Chemical Engineering (CGPA: 7.62/10)
Nagpur, India
July 2010 – May 2014

SKILLS SUMMARY

• Certifications: Black Belt Lean Six Sigma, TPM Facilitator
• Software and tools: Minitab, Python, @Risk, GE CSense, MS Excel, MS Word
• Coursera certifications:
  o 9 course Specialization in Digital Manufacturing & Design Technology – The State University of New York

EXPERIENCE

Lupin Limited
Manager, Site Improvement Leader, Operational Excellence
Mandideep, India
July 2016 – June 2019

• Directed 51 operational excellence projects across various functions by focusing on Lean Six Sigma principles to deliver savings of $3.81M per annum
• Conferred the Silver award by Quality Council of India and Special Recognition by the Confederation of Indian Industries for improving the yield output of a bulk drug product by 10.55% resulting in savings of $0.58 M per annum
• Enabled the manufacturing facility to win the Gold Certificate of Merit by leading the overall co-ordination for the Indian Manufacturing Excellence Awards audit conducted by Frost & Sullivan & FICCI
• Developed capability of mid-level and top management in lean six sigma and statistics across the manufacturing organization at Mandideep by training more than 100 Green Belts
• Certified as a Lean Six Sigma Black Belt by Lupin and Certified by the Confederation of Indian Industries as a TPM Facilitator

Senior Executive, Area In-charge
Sep 2015 – July 2016

• Led a team of 20 at solvent recovery unit to successfully clear the US FDA inspection, improve solvent recovery and safety of the unit and implement energy conservation measures
• Saved $0.24 M per annum by reducing the failure rate of solvent recycling batches from 12.7% to 1.9% and improving the solvent quality, a key parameter, which led to an increase in output of bulk drug by 2.36%

Graduate Engineering Trainee, Senior Shift Production Officer
Dec 2014 – July 2014

• Supervised team of 40 officers to lead troubleshooting and smooth functioning of plant manufacturing activities
• Played an instrumental role in increasing the plant capacity by 18.4% from 3.8 metric tons to 4.5 metric tons

LEADERSHIP & ACHIEVEMENTS

• Certified as Competent Communicator and Competent Leader by Toastmasters International
• Mentored and chartered a new Toastmasters club in the city and also doubled the member count from 21 to 42 as the Vice President Public Relations at ISC Bhopal Toastmasters International Club (Oct 2017 – Aug 2019)
• Bagged top positions in various competitions conducted by Toastmasters International at club, area and division level
• Volunteered for I-Clean Bhopal Team to clean around 45 areas in Bhopal by removing garbage, cleaning and painting dirty walls, and spreading awareness amongst citizens each Sunday (July 2015 – July 2017)

INTERESTS

• Reading books on behavioral sciences, practicing yoga, playing table tennis and following soccer
Results driven, globally oriented Information Technology expert with demonstrated ability to lead diverse teams to new levels of success. Strong understanding of international and cross-cultural business. A proactive leader with 9.8 years of experience in leading test strategy and delivering web-based applications in health and public services domain. Proficient in designing secure end-to-end solutions with detailed and refined system functionality. Adept at cutting-edge work in penetration testing. Recognized for identifying tricky and inscrutable design gaps and for delivering quality outcomes. Comprehensive understanding of various testing protocols including black box, white box, functional, GUI, regression and manual penetration testing.

**SKILLS & COMPETENCIES**

**CORE STRENGTHS:** Functional Testing • Software Test Automation • Python Scripting • Security Testing • QA Documentation Management and Reporting • Test Case Development • Test Environment Setup • Defect Logging & Tracking • Change Management • Process Improvement • Project Team Leadership

**TECHNICAL PROFICIENCIES:** ALM • HP QTP • Python • HTML 5 • IBM RQM • IBM RTC • Fiddler • Selenium IDE/Web driver • Wire Shark • Oracle SQL Developer • JIRA • SQL Server

**PROFESSIONAL EXPERIENCE**

**ACCENTURE, BOSTON, MA**  
**QA Associate Manager**  
Jul 2015 – Sep 2019  
Supporting development of Child Support System for the state of Massachusetts (client) with focus on financial and enforcement module of the system. Key functionalities of the system include locating absent parents, establishing paternity, obtaining child support orders and enforcing support payments. The new system is expected to minimize administrative workload of the caseworkers and enhance their efficiency and performance by developing a real-time case management process that is system automated.

- Lead a team of 10 people including onshore and offshore.
- Reviewed tasks executed by the team members.
- Responsible for all client communications pertaining to business analytics
- Involved in defect review meeting and design review meeting with stakeholders.
- Managed Enforcement module.
- Developed test scenarios from requirement diagrams and using case diagrams
- Wrote SQL queries to retrieve data from converted data
- Provided functional answers to other team members.
- Use Python scripting for creating automation test scripts for selenium web driver

**ACCENTURE, SACRAMENTO, CA**  
**Sr. Software Engineer, Quality Assurance**  
Apr 2013 – Jun 2015  
Served as the point of contact and functional lead during the development of a government-owned web application, the California Health Exchange. Conducted and maintained test collateral including test plans, scripts and defect reports when executing GUI, regression, functional and system integration testing. Represented QA team in technical meetings, collaborated on root-cause analysis and problem diagnosis. Reviewed acceptance criteria and developed formal test plans/scenarios.

- Wrote test scenarios for a single streamed line application, a major CR after release
Conducted manual penetration test (ethical hacking) of applications
Saved corporate costs by discovering several high-priority defects and re-defining security mechanisms for client’s web application feature
Dealt with and addressed multiple change requests (CRs) from the client post release
Reduced web test cycle duration by automating using Selenium web-driver and QTP
Completed 50% of testing processes in the first release and established credibility with stakeholders at multiple levels
Single-handedly carried out manual testing of applications, mentored staff on manual testing tools and business flow
Documented and tracked defects/bugs using ALM during development & testing cycles

**Accenture, Bangalore, India**

**Software Engineer, Quality Assurance**  Dec 2009 – Mar 2013

*Collaborated with product owners and engineers to analyze, debug and resolve design issues in a web-based software for a government client, the California Pension System (CALPERS). Generated detailed test plans and cases for functionality.*

- Served as a module lead for testing an employee benefit feature in The California Public Employees Retirement System
- Reviewed requirements for executing and establishing functions associated with the Compliance 508 (American Disability Act) using JAWS
- Created a tracking log of defects that needed immediate resolution and retest
- Automated software test case design while re-evaluating test strategy
- Carried out test documentation delivery
- Provided continuous updates on milestones to business stakeholders
- Identified design gaps in use case documents

**Awards & Honors**

- Received ‘ACE Excellence Award’
- Received Accenture’s ‘Star of the Month Award’ over fifteen times
- Received performance points and appreciation mail from Sr. Managers and Sr. Executives

**Education**

- Master of Computer Applications  2009
  **PES University, Bangalore, India**
- Bachelors in Information Technology  2006
  **Indira Gandhi National Open University, India**

**Training & Credentials**

- CSCI E – 7 (Python Programming) from Harvard.
- IC Agile Certified
- Advance Data visualization Boot Camp - Accenture
- Scrum Fundamentals Certified (SFC)
SUMMARY

• 3-year working experience in R&D product design & development, research, manufacturing, quality control and data analysis.
• Gaining product management (MVP Testing, PRD, MRD), business development (Lean business model) skills focusing on digital/big data and transportation area.
• Proficient with ProE, Solidwork, Minitab, COMSOL, MATLAB, MS, Excel (excellent).

EDUCATION

Candidate of MS in Engineering Management
Northwestern University, Evanston, IL
Courses: NUvention Transportation, Product Management, Engineering Management
Sept 2019 – Dec 2020

MS in Mechanical Engineering
New Mexico State University, Las Cruces, NM
GPA: 4.0/4.0
Aug 2014 – Dec 2015

PROJECTS

Level-UP! (Course project, Product Management)
Product owner and product manager
Sept. 2019 – Current
• Level up is a new social media platform that provides solutions for gamers struggling with poor communication and incompatible teammates to find congenial game buddies.
• Building product management skills (customer interview, MVP testing, PRD, MRD).

“Smart” Bus Shelter (Course project, NUvention Transportation)
Product owner and product manager
Sept. 2019 – Current
• “Smart” Bus Shelter is an app/software which is trying to attract more people to take bus service by providing real time bus location and more accurate arrival time. The ultimate goal is to advocate public transit, reduce urban congestion and GHS emission.
• Building skills on building a business (Key learnings: business strategy, lean Start-Up...).

Product Management (Project)
Anthem, Inc, Chicago.
Oct. 2019 – Current
• Working on process design on internal data flow and data classification to improve the data utilization efficiency.

WORK EXPERIENCE

Refrigeration Engineer
Cold Storage R&D Department, Thermo Fisher Scientific, Asheville, NC
May 2016 – July 2019
• Worked on new product development (NPD) project and in responsible for thermal/mechanical design of new generation of cascade refrigeration systems.
• Studied innovative ideas on refrigeration system, and control algorithm, which helping development of next generation of high-performance product.
• Participated designing and launching high-performance ultra-low temperature (-86C) freezers, “TSX series”, which is the premium series of our product.
• Worked with cross-functional team to solve product quality issues.

CAREER INTERESTS

• Product management & development, Business development, Analytics, Design & Innovation.
GEORGE (CHIA-CHU) LIAO  
Mobile: (626)375-8842 | E-mail: chialiao2021@u.northwestern.edu |

PROFILE
A master candidate in Engineering Management at Northwestern University. Seeking a challenging position in product management, focusing on consumer electronics. Passionate of bridging the gap between R&D and mass-production. 2-year experience in the manufacturing industry with the expertise in data-driven decision-making.

EDUCATION
Northwestern University  
Master of Engineering Management  
On-going sneaker-related product development  
On-going product management course  
Evanston, IL  
Dec 2020

National Taiwan University  
Bachelor of Science in Chemical Engineering - 3.1/4.0  
Designed the process for wastewater treatment for the shale gas industry with membrane distillation technique and improved the cost efficiency by 50%.  
Taipei, Taiwan  
Jan 2016

SKILLS
• Technical Software: Python, Matlab, MiniTab, Excel  
• Statistics: DOE, 6-Sigma, DMAIC, SPC Control  
• Project Management: Material Development, New Manufacturing Production Integration

WORK EXPERIENCE
Corning Inc. (Electronic Display Glass Manufacturing Company)  
Division Finishing Process Engineer  
Consolidated a project of 20 interdisciplinary members for glass edge particle improvement with the achievement of reducing 50% of edge particle and reinforcing customer's manufacturing yield by 20%.  
Engineered through DOE and DMAIC methods for 2 cutting-edge finishing production line of display glasses integration with over 90% manufacturing yield in mainland China.  
Improved finishing process cycle time from 20s to 18s.  
Taichung, Taiwan  
Sep 2017 - Jul 2019

Micron Technology (D-RAM Manufacturing Company)  
Wet Process Engineer  
Cooperated with process owners to optimize Wet manufacturing process and enhance overall product yield from 70% to 85%.  
Statistical controlled Wet process to maintain overall product quality over 80% yield.  
Taichung, Taiwan  
Mar 2017 - Sep 2017

Traffic Division, Taipei City Police Department  
Substitute Military Service  
Mandatory military service at the accounting office in Taipei City Police Department.  
Taiwan  
Feb 2016 - Feb 2017

Nike Inc.  
Innovation Chemical Engineer Intern  
Explored an innovative shoe-adhesive project with material suppliers for rejuvenating sneakers manufacturing process.  
Enhanced a mid-sole foam performance by 20% through constructing DOE for both manufacturing process and material development.  
Performed and analyzed over 1,000 Nike standard sample-physics testing for foam-formulation project.  
Taichung, Taiwan  
July 2015 - Dec 2015

LEADERSHIP
Thor Hockey Club  
Alternate Captain  
Led a 20-member team to win the 2nd place in a national tournament.  
Taipei, Taiwan  
2013
DIVYA SHARMA
DivyaSharma2020@u.northwestern.edu; +1-224-716-3783

*Technical Team Leader * Product Manager * LTE Protocol Developer * Software Designer and Developer*

**Leader** and creative strategist with strong abilities for Product Management.
**I Aim** to create tangible value insights with teams working at intersections of Creativity, Technology and Business.

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<thead>
<tr>
<th>ACADEMIC EXPERIENCE</th>
<th>ISO 22478</th>
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<tbody>
<tr>
<td>Sep 2019 – Dec 2020</td>
<td>Masters in Engineering Management</td>
</tr>
<tr>
<td></td>
<td>Northwestern University</td>
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<tr>
<td>Aug 2009 – May 2013</td>
<td>Bachelors of Technology in Electronics and Communication</td>
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<td></td>
<td>Guru Gobind Singh Indraprastha University, GPA 3.68</td>
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<tr>
<th>SKILL SET</th>
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<tbody>
<tr>
<td>Hard Skills</td>
<td>Software Designing and Development</td>
</tr>
<tr>
<td></td>
<td>• Python, C, SQL, OOPS Concepts, Linux OS, GIT</td>
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<td></td>
<td>• LTE (4G) Protocol Domain</td>
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<td></td>
<td>• Protocols: MAC, FAPI, GTP, RRC, X2AP, SIAP, HANDOVER, 3GPP LTE Specifications.</td>
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<td>Statistical Analytics</td>
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<tr>
<th>PROFESSIONAL EXPERIENCE</th>
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<tr>
<td>Dec 2016 – July 2019</td>
<td>Senior Software Engineer</td>
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<tr>
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<td>• Led a team of 10-14 engineers</td>
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<td>• Developed 6 products for 8 Telecom clients generating a revenue of $1.2 Million</td>
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<td></td>
<td>• Worked on LTE Femto Cells specialised on Octasic Platform</td>
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<td></td>
<td>• Technical support on Freescale platform, partnered with Astris</td>
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| Apr 2018 – June 2018         | Technical Leader @ARICENT in DOMO TACTICAL COMMUNICATIONS (DTC), UK     |
|                               | • Led a team of 4 (Aricent + DTC) Senior Software & Telecom Engineers at client site in UK |
|                               | • Worked on Design and Innovation of Surveillance Products worth $600K for UK Public Sector |
|                               | • Appreciated by Client for Product Quality, Timely delivery and Team & Task Management |
|                               | • Mobile World Congress 2019 appreciated these products.                 |

| Feb 2014 – Nov 2016          | Software Engineer @ ARICENT                                             |
|                               | • Software requirement gathering and analysis from clients               |
|                               | • Prepared High-Level Design for the requirements                       |
|                               | • Developed software for LTE Protocols: MAC, HARQ, Downlink data scheduling, RACH, MIB/SIB |
|                               | • Developed Automation Testing Framework leading to a better tested product |
|                               | • Developed Software for Wireless Network Monitoring boosting the revenue by $200K|

| May 2012 – July 2012         | Network Engineer Intern @ Bharti Airtel                                 |
|                               | • Worked on study of Metasolv network generator software and GSM networks |
|                               | • Basic study of NMS (SDH/DWDM), EWSW switches                          |

| May 2011 – July 2011         | Cisco Certified Network Associate @ Bharati Vidyapeeth College of Engineering, Delhi. |

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<tr>
<th>LEADERSHIP, AWARDS &amp; ACHIEVEMENTS</th>
<th>ISO 22478</th>
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<tbody>
<tr>
<td>Research Papers</td>
<td>Date: 24th Feb 2013</td>
</tr>
<tr>
<td></td>
<td>Topic: Design of a Sierpinski’s Gasket Fractal Antenna</td>
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<tr>
<td></td>
<td>Date: 25th Mar 2012</td>
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<tr>
<td></td>
<td>Topic: Investigation of Various Feeding Techniques in Microstrip Antenna at C-band Frequency</td>
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<td>Conference: COMMUNE CACCS</td>
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<tr>
<th>Leadership Awards</th>
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<tr>
<td>INDIVIDUAL AWARDS</td>
<td>10th Jan 2018: Kudos for &quot;Client First&quot; recognition (Team Level, Team Size: 25)</td>
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<td></td>
<td>21st Sep 2018: Kudos for &quot;Collaboration&quot; recognition (Business Unit (BU) Level, BU Size: 122)</td>
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<td>7th Jan 2016: Kudos for &quot;Constantly learning and innovating&quot; (BU Level, BU Size: 60)</td>
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<tr>
<th>TEAM EXCELLENCE AWARDS</th>
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<tr>
<td>15th Jan 2019: For &quot;Client First Attitude&quot; (BU Level, Team in BU: 17)</td>
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<tr>
<td>2nd July 2018: For &quot;Quality Delivery&quot; (BU Level, Team in BU: 15)</td>
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<tr>
<td>18th Jun 2015: For &quot;Collaboration&quot; (BU Level, Team in BU: 8)</td>
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<tr>
<th>EXTRA CURRICULAR ACTIVITIES</th>
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<tr>
<td>• Managed workshops for IEEE HKN Student Chapter, BVCOE.</td>
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<td>• Volunteered for Non-Profit Organization Bharat Vikas Parishad, organized Blood Donation Camps, Literacy camps, etc.</td>
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<tr>
<td>• School President in High School.</td>
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Divya Sharma
Northwestern University
Masters of Engineering Management
SUMMARY

Flexible and versatile Business Analyst specializing in developing innovative solutions to organizational problems. Excels at cultivating, managing and leveraging client relationships that lead to extended engagements and business opportunities. Looking forward to apply my knowledge and experience to product management and learn new techniques.

SKILLS

Technical Knowledge -
- C, C++
- SQL
- R
- JIRA
- Microsoft O365 suite
- Web application creation on Liferay

Analytical Knowledge -
- Making data-informed decisions
- Conducting market research
- Effective presentation
- Time Management
- Data analysis using Minitab

EXPERIENCE

Business Analyst IT
Schneider Electric India Pvt. Ltd July 2017 - July 2019

Defining product vision - ConferenSE, a in-house event management tool for Schneider Electric
- Conducted a market research to enhance product features and comply with current market standards
- Increased application adoption by 40% by restructuring and enhancing the user experience

Defining project scope - Intranet 2.0, aimed at revamping the intranet site of the company
- Interacting with clients to create initial business requirements
- Conducted meetings with development and UI/UX teams to understand feasibility of business requirements
- Applied Scrum/Agile practices using agile project management tools such as JIRA to obtain higher efficiency

Collaboration Site Creation - Liferay, a platform focusing on enterprise portal technology to elevate digital experience
- Built intuitive and personalized company collaboration sites for various departments using Liferay technology.

Research
Cloud Computing TMACS January 2017 - May 2017
- Performed extensive research on enhancing security and performance of online cloud systems.
- Built a hybrid model by combining concepts of TMACS (Threshold multi-authority control systems) as well as CP-ABE (Cyphertext-policy attribute-based encryption) to resolve the single-point bottleneck problem.

Intern
Emaar Island United L.L.C May 2016 - July 2016
- Contacted corporate clients of the company, inquired about requirements and sent quotes to those interested.
- Coordinated with sales staff to track the progress on quotes.
- Assisted technical team in website creation by working on improving the user experience.

EDUCATION AND TRAINING

Master of Engineering Management
Northwestern University | Evanston, USA | 2019

Bachelor of Computer Science and Engineering
Vellore Institute of Technology | Vellore, India

LEADERSHIP AND ACHIEVEMENTS

Product Manager, ConferenSE
- Taken up end-to-end responsibility for a digital event creation application used globally within Schneider

Active participation, se.com project
- Received "Step-up" points from senior management for pro-actively taking up additional responsibilities in a project
SUMMARY
- Proficient in 3-D CAD Modeling, finite element analysis, computational fluid dynamics, statistical analysis
- Experienced in robotics simulation, robot programming, PLC programming, machine vision
- Knowledgeable in mechanical design, design for manufacturing and assembly, failure mode effects analysis

EDUCATION
Northwestern University, Illinois
Master of Science, Engineering Management
Expected June 2020

University of Illinois at Urbana-Champaign, Illinois
Master of Science, Mechanical Engineering
May 2016

University of Birmingham, Birmingham, UK
Bachelor of Engineering, Mechanical Engineering
GPA: 3.89/4.00

EXPERIENCE
Faurecia Emissions Control Technologies, Columbus, IN
Controls Engineer
10/17 – 07/19
- Lead projects to automate current processes and enhance automation level of plant (best automation plant of Faurecia in 2018)
- Review processes and procedures on ongoing basis for production efficiency, quality and safety
- Support start-up of new /modified equipment for new program launches
- Participate in Hoshin and Continuous Improvement events, TS16949 and ISO 14001 Internal Audits

Diverse Automation, Greer, SC
Robotics Engineer
09/16 – 09/17
- Generated conceptual design and robotics simulation for proposals of new system
- Designed system layout, mechanical fixture and pallet, created bills of material (BOM)
- Generated system specifications and manuals and provided training for maintenance team

Department of Mechanical Engineering, University of Illinois, Champaign, IL
Graduate Research Assistant
03/15 – 05/16
- Developed wireless and sensorless manufacturing tooling status monitoring system for Industry 4.0
- Set up control unit with embedded system programming language and configured wireless communication
- Generated real-time 2D trajectory of tool with C++ program and 3D position mapping in MATLAB

School of Mechanical Engineering, University of Birmingham, Birmingham, UK
Undergraduate Research Assistant
11/13 – 06/14
- Redesigned T-handle for Dynamic Hip Screw (DHS) surgery according to ergonomic rules
- Identified suitable polymers and metals according to material property and cost analysis with Ashby plots
- Analyzed final design with FEA in ANSYS, fabricated it by CNC machining and 3-D printing

Wuhan Iron & Steel (Group) Corp., Ezhou, China
Mechanical Engineer Intern
06/13 – 08/13
- Designed gear, shaft, casing and lubrication strategy for gear box of oil pump in SolidWorks
- Analyzed mechanical structure and surface heat dissipation with FEA in Abaqus
- Determined processing steps and completed manufacturing routing sheets for entire product

SKILLS
Software: SolidWorks, Pro/Engineer, ANSYS, Abaqus, COMSOL, MATALAB, Minitab
Automation: ABB, Fanuc, RobotStudio, ROBOGUIDE, Studio 5000, Cognex, Keyence, C++
Language: English (Full Professional), Chinese Mandarin (Native)
WORK EXPERIENCE

The Ministry of Industry and Infrastructural Development of the Republic of Kazakhstan
Senior Expert of Technology and Innovation Development Department
December 2015 – January 2018
(currently on academic study leave)

- Participated in the process of creation and implementation of country laws, regulations and other documents in technology and innovation field of the Republic of Kazakhstan
- Maintained yearly plan of the Department budget projects, including bills and orders
- Controlled performance of “The National Agency for Technological Development” (JSC) according to agreement between Ministry and Agency
- Participated in international forums and official meetings among foreign countries in technology and innovation field
- Answered citizens’ complaints and inquiries about government support measures and issues in technology and innovation field
- Organized Vice-Minister’s and Minister’s meetings and business trips

Expert of Export Control and Licensing Department
of Industrial Development and Industrial Safety Committee
July 2014 – December 2015

(before November 2014 it was called the “Industrial Committee” in the Ministry of Industry and New Technology, which now uses the name above)

- Gave licenses and permits for import, export, re-export and transit products and goods, including production which is subject to export control, typically about 10 permits per day
- Assured compliance of laws and regulations, agreements and other documents in Export Control and Licensing fields of Republic of Kazakhstan
- Worked as one member of the team for automating the issuing of licenses and permits online

Mayor’s Office of Kazybek Bi District in Karaganda City
Senior Specialist of Department of Subsistence
November 2013 - July 2014

- Cooperated with district service utilities, the Head of Emergency Services, the Consumer Protection Authority and the city police department to solve various problems in the fields of emergency situations and sanitation
- Organized meetings with district citizens and city departments to tackle certain residents’ issues
- Controlled greenery protection in the district area according to city legislation

LLC “COAL TRADE COMPANY”
Automation Specialist of Department of Computer Logistics
June 2013 – November 2013

- Designed and implemented automatization system among Company’s computers and other devices

EDUCATION

Northwestern University
- Master of Engineering Management
  September 2019 to present
  Evanston, Illinois

UCLA Extension American Language Center
- Academic Intensive English Program (Advanced Division)
  June 2018 – December 2018
  Los Angeles, California

Kazpotrebsoyuz Karaganda Economical University
- Bachelor of Economics and Business, GPA: 3.43/4
  September 2014 – May 2016
  Karaganda, Kazakhstan

Karaganda State Technical University
- Bachelor of Automation and Control, GPA: 3.52/4
  September 2009 – June 2013
  Karaganda, Kazakhstan

SKILLS

Languages: Kazakh (native), Russian (native), English (advanced)