

resume book

MITsdm

system design & management

sdm self-sponsored fellows

SHWETA AGARWAL

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EDUCATION

Massachusetts Institute of Technology

School of Engineering & Sloan School of Management

Cambridge, MA

08/2016 – 01/2018

Candidate for M.S., System Design and Management, Jan 2018 | CGPA 4.5/5

- Active member of Technology, Product Management, FinTech, and Entrepreneurship and Innovation clubs
- Project: Designed image recognition tool for restaurants to identify customers, their emotion and fetch their food preferences from past records, enabling personalized services to the right customer at the right time
- GMAT: 720

Indian School of Business (ISB)

Post Graduate Programme in Management (M.B.A.)

Hyderabad, India

2013 - 2014

- Concentration: Information and Technology Management; Marketing
- Events Coordinator, Women in Business Club; Lead Coordinator, Business Technology Club

Galgotias College of Engineering and Technology

Bachelor of Technology, Electronics and Communication Engineering

Greater Noida, India

2005 - 2009

- Graduated 1st / 125 students in my department & among top 5% of university B.Tech batch of ~26,000 students

EXPERIENCE

Axis Bank

Mumbai, India

India's leading private bank, offering a wide range of consumer and corporate banking services; annual turnover: \$6.2B

Senior Manager, IT - Technology & Digital Innovation Group

05/2014 – 02/2016

Innovation Management and IT Strategy - CIO Advisory

- Handpicked by the senior management to devise digital transformation strategy; conducted competitor analysis and liaised with industry experts to constitute I.D.E.A. team to make digital innovation a core competency for the bank
- Analyzed user needs and presented applications of natural language processing, artificial intelligence and blockchain technologies in virtual assistance, personalized customer experience and payments innovation at the bank
- Managed setting up of Innovation Lab with in-house incubation center and accelerator program for new start-ups

New Product Design/Co-creation and Data Analytics

- Led team of 12 people to build digital wallet 'LIME' app by evaluating market trends, gathering requirements and developing features, resulting in >1M installs and ~\$4.6M value of wallet load in 3 months of launch
- Designed and developed user journey, product features and technical implementation plan for the instant personal loan on mobile app, resulting in 11,000 loan accounts creation and disbursal of ~\$5.2M
- Implemented multiple big data initiatives using Hadoop and Google Analytics, enabling location based personalized offers to customers, and 90% of time reduction in transactions tagging
- Conceptualized and launched service package 'Happy Holidays' which included forex, travel insurance, trip assist, dining delights and international sim to tap Indian globetrotters. It won bronze amongst 469 nominees from 261 banks in the EFMA International Innovation Awards (marketing & distribution) under customer experience category

Tata Consultancy Services

Gurgaon, India

Asia's largest IT Services, Business Solutions and Outsourcing organization; annual turnover - \$16.5B

Systems Engineer, IT Infrastructure Services

01/2010 – 03/2013

- Chosen ahead of 15 team members to drive due-diligence phase by serving as liaison between business and technical teams, enabling ~\$5M deal sign-off from the UK based automobile manufacturing client
- Automated the process of health check and monitoring of environment using Six –Sigma strategy, reducing 25% of man-hours and achieving cost saving of \$50,000 for the UK Retail client
- Spearheaded scoping & monitoring of the Service Level Agreement (SLA) by designing a customized IT Solution for tracking knowledge transfer from client, ensuring project compliance by meeting both internal & market SLAs

Rimjhim Ispat Ltd

Unnao, India

India's leading stainless steel producer, melting capacity 300,000 MT/annum, annual turnover \$110M

Sales Engineer

07/2009 – 12/2009

- Led the sales function which resulted in building new client base of 5 companies and order book value of \$100,000

ADDITIONAL INFORMATION

- Technical Skills: JMP13, R, Tableau, Python, HTML and JavaScript
- Volunteer CRY since Jul'12: organized street play & educated people on zero tolerance towards violation of child rights
- Avid swimmer and dancer

TAYLOR H. ANDREWS

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
September 2016 - Present

Worcester Polytechnic Institute
School of Engineering
B.S., Computer Science, Minor in Music

Worcester, MA
September 2008 – May 2012

- Graduated with Highest Distinction, Upsilon Pi Epsilon (Computer Science Honor Society) Vice President

EXPERIENCE

VMware
Core Hypervisor / Virtual Machine Monitor group
System Software Engineer II

Cambridge, MA
May 2012 - Present

- Implemented virtual x86 Graphics Address Remapping Table (GART) hardware
- Lead contributor to virtual x86 performance counter hardware platform
- Active contributor to hardware virtualization drivers and virtualization hardware virtualization (nested VM support)
- Led bring your kids to work day's server disassembly / reassembly event

Microsoft
App-V (Application Virtualization) group
MQP Intern

Cambridge, MA
September 2011 – December 2011

- Selected for WPI's first capstone project collaboration with Microsoft
- Member of three-person team that created prototype JS/HTML5 webapp (under NDA)

VMware
Core Hypervisor / Virtual Machine Monitor group
Intern

Palo Alto, CA
May 2011 – August 2011

- Designed and implemented k-means clustering algorithm based guest operating system performance analysis tool

Worcester Polytechnic Institute
Computer Science Department
Undergraduate TA

Worcester, MA
September 2010 – May 2012

- CS lab/conference TA for Operating Systems, Software Engineering, and Scheme classes

Stratus Technologies
Windows ftServer (fault tolerant hardware) group
Co-op / Part-time Software Engineer

Maynard, MA
May 2010 – February 2011

- Member of four-person team that successfully designed and prototyped PCI-e non-transparent bridge FPGA implementation for tripling memory copy speeds in Stratus ftServer
- Rewrote some WinDBG extensions for reverse x86 page walks

NOTABLE PROJECTS AND ACCOMPLISHMENTS

- Douglas High School Class of 2008 Valedictorian
- Awards for individual contributions as well as team leadership in undergraduate Software Engineering classes
- Java-like language undergraduate compiler – member of one of two teams to receive full score
- Recycled Arcade Machine – full-size, backlit arcade machine with full case art, built from 100% salvaged materials
- Algorithmic Music Composition and Large-Scale Sound Installation Design – wrote software to compose music from real-time data (such as stock market values) and constructed full-scale psychoacoustic art installation (WPI)
- Douglas High School 3D Walkthrough – High school senior project; a customizable, first person, 3D virtual model of the high school <http://tinyurl.com/q7xrnxz>
- Franken-VM - A 36-hour VMware hackathon featured project: "Distributed Memory Hypervisor"

HOBBIES

Technology, home automation, guitar, ukulele, darts, cards, table tennis, fishing, hiking

SHRUTI BANDA

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EDUCATION

Massachusetts Institute of Technology, *Cambridge*

Aug'2015-Present

Master of Science in Management and Engineering, *Sloan School of Management & MIT School of Engineering*

- Developed a complete **B-plan** for a market-place to help restaurants source local farmers' organic produce.
- Analyzed Amazon employee data to predict access needs using statistical tools **R & python** for data mining.
- Built a web application (Group'em) to help K-12 teachers to effortlessly create and manage classroom groups.
- Built an **auto-cleaning** database that predicts missing values in a column using appropriate **machine learning** technique on remaining columns.
- **Teaching Assistant** (2015-17): Manage EDX platform by assisting students & creating content for the premier MIT SCX online course awarding 1,200 certificates with a total of +20K students enrolled from 185 countries

Indian Institute of Management, *Calcutta*

June'2012-Apr'2014

Master of Business Administration (**MBA**)

National Institute of Technology, *Warangal*

June'2008-May'2012

Bachelor of Technology, **Computer Science**

EXPERIENCE

Senior Product Manager

Personagraph

Apr'2014 – July'2015

- Responsible for product vision, strategy and roadmap for Personagraph analytics tool and partner portal.
- Worked with **cross-functional** teams to gather, plan and implement the product requirements. Used Wireframing tools such as **Omnigraffle** and **Balsamiq** to design the product for better data representation and **Scrum** process for delivering the product.
- Led the analytics UX **redesign** and **re-architecture** effort & built an advanced heuristic & clustering based model named "high value users" for finding most profitable users
- On-boarded **50+ app** developers, resulting in **10M+** users with 50+ million inferences generated about them.

Product & Research Intern

IntellADAPT

May'2016 – Aug'2016

- **Designed** mobile apps to collect data & analyze the potential of EEG wearables for a brain computer interface (BCI)
- Built commercialization plan & financial projections for the wearable technology which earned **\$1.5M** in funding from the National Science Foundation.
- Prototyped a **low cost wearable device** with the potential to reach the billion-dollar education tech market.

Marketing Intern

Mondelez International

May'2013 – Jul'2013

- Was offered **Pre-Placement Interview** after project review; Developed **Integrated marketing** communication ideas with strong link to consumer insights (**33** consumer immersions) to build desire for Cadbury Bournville
- Effectively used **digital media** in proposed ideas & analyzed their viability by contacting potential partners.

Software Developer Intern

Microsoft

Apr'2011 – June'2011

- **Pre-Placement Offer** from Microsoft India; Implemented a Proof of Concept for posting an onsite application interface to the Microsoft cloud using Azure Connect that reduced the transfer time of 2GB file by 82%(23 to 4 min)
- Built UI to automatically generate scripts that saved **7 hours** of manual work & got integrated in next product release.

LEADERSHIP

MIT Clubs: Women in System Design & Management Chair & VP of education for Sloan Product Mgmt. club,'16

Intaglio International Business Event, *IIM Calcutta*

- **Organized** Marketplace, a versatile marketing plan building and **flagship** event of Marketing and Coordinator of Arena, a series of five spot events based on Marketing, **Strategy** and **Finance**, 2013-14

Sports Captain, Throw ball & kho-kho

- **Captained** the school **Throw Ball** and **Kho-Kho** team at Sri Satya Sai Vidya Vihar High School, 2004-06
- **Winner** of Intra School Throw ball competition in 2005-06 and Kho-Kho competition for two years

ADDITIONAL INFORMATION

- **Programming Languages & skills:** C, C++, C#, Java, Python, sketch (design tool), R
- **Scholarships:** Top scorer in school from among 79 students in class X board exam, 2006. Runner-Up in Young Mathematician Contest and among 25 people selected for **project Ramanujan**, 2001

MINA N. M. BOTROS

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., Engineering Management

Cambridge, MA
2015-2017 (expected)

University of Calgary
Schulich School of Engineering
B.Sc., Mechanical Engineering

Calgary, AB
2005-2009

PROFESSIONAL EXPERIENCE

TECHNOLOGY STRATEGY PARTNERS

Cambridge, MA
2016

Associate, Consultant
Strategy

- Created models to assess the effect of product pricing points on consumer buying habits and forecasted sales.
- Investigated several value creation frameworks to achieve clients' revenue growth targets.
- Helped clients apply holistic systems models to make business decisions and to meet their strategic visions.

Operations

- Conducted diagnostic interviews with key stakeholders within clients' organizations.
- Worked with clients to identify and to analyze historical data for model creation, calibration and testing.
- Conducted analyses to identify potential common product platform parts or new architectures.
- Conducted financial analyses to assess the profitability of product platforms.

JACOBS CANADA INC.

Calgary, AB
2011 – 2016

Project Engineer, Team Lead (P.Eng.)

- Managed several multi-million dollar concurrent oil sands projects including shared scope with Mumbai office.
- Prepared engineering budgets and staffing plans, and compiled monthly-earned value reports.
- Reviewed, signed, and stamped all construction documents and building permit applications.
- Analyzed historical labor reports, and presented resource cross utilization plan to management to increase productivity. Projected savings to clients ranged from \$100k to \$250k depending on project scope.
- Evaluated various contracting strategies to save clients \$150k per project by shifting scope of supply with a minor increase in schedule risk.

ACADEMIC EXPERIENCE

SYSTEM DESIGN AND MANAGEMENT PROGRAM at MIT

Cambridge, MA
2016 - Present

Head Teaching Assistant

- Lead a team of 5 teaching assistants.
- Liaise with course instructors to build lecture and recitation schedule.
- Teach a two-hour class once per week to 107 students.
- Create grading rubrics; handle teamwork conflicts and moderate online class forum.
- Collaborate with the program's staff to promote it across MIT and to industry sponsors.
- Mentor five industry sponsored term projects in the areas of architecture, technology maturation and roadmapping, process implementation and business case evaluation.

GLOBAL TEAMWORK LAB

Cambridge, MA
2016 – Present

Researcher

- Design a resource allocation framework to advance project portfolio management practices.
- Participate in designing experiment to detect correlations between participants' mental models and project performance.
- Organize research symposia and conferences with colleagues from the University of Tokyo.
- Advise industry research partner on strategic organizational design and its effect on innovation and process implementation.

AMLAN DAS

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EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
Sep 2016 - Present

Visva Bharati University
Dept. of Computer Science
Bachelor of Technology (B.Tech), Information Technology

Kolkata, India
Jul 2003 – Jun 2007

EXPERIENCE

GOLDMAN SACHS

Associate

Bangalore, India
Jun 2015 – July 2016

- Led software development modules for cloud platforms team; designed and developed features such as software rate limiter, state transition workflow engine, data reconciliation framework.
- Built a product and services provisioning system having salient characteristics like - policy-based inventory, security hardening of the systems, workflow and lifecycle automation, and capacity management. Took proactive leadership to define the proposed road map to adopt the new system, which leads to cost savings for the firm up to \$1.5M.

AT&T

Technical Specialist

Bangalore, India
Feb 2015 – May 2015

- Defined design strategy, reviewed and rated engineers working in my team.

THOMSON REUTERS

Lead Engineer

Bangalore, India
Oct 2013 – Jan 2015

Senior Engineer

Jul 2012 – Oct 2013

Engineer

Sep 2010 – Jun 2012

- Led a global (US & India) development team of five engineers. Established software development standards and practices, engaged in requirement and feature discussions with clients, and authored the high-level design document.
- Worked closely with business stakeholders to evaluate the data in the internal systems and suggest improvements.
- Reviewed and rated engineers working in the team, identified skill matrix for the team and recommend training programs, defined half-yearly common goals and a plan of action to achieve them. Also handled conflict management, worked to enable greater synergy between cross-functional teams, and mentored team members.
- Built an asset management software with features like – monitor complete asset lifecycle, auto discovery of endpoints, CMDB functionality like viewing configuration items and their relationships, license management, remote control of devices, and granular reporting of the environment.
- Devised centralized voice and contact center management portal. It provided the business stakeholders a lever to their business variables giving them more fine-grained control, automation and efficient utilization of work force.
- Designed a solution to integrate Salesforce and internal client management system.

TECH MAHINDRA

Technical Associate

Bangalore, India
Feb 2010 – Sep 2010

- Worked on product enhancements as a member of offshore development team. Developed and supported Computer Telephony Integration (CTI) solutions.

HEWLETT PACKARD

Technology Consultant

Bangalore, India
Aug 2007 – Jan 2010

- Worked on operational support engineer for Cisco Unified Communication and HP products e.g. – Cisco UCCE, Cisco UCM, Cisco CVP, HP Service Manager. Was responsible for incident management and change management.

TECHNICAL SKILLS

- **Programming/Scripting Languages:** JavaScript (node.js), Java, J2EE, SQL
- **Databases/Data Sets:** RDF, OWL, Graph DB, Microsoft SQL Server, Oracle, MySQL, NoSQL, XML, JSON
- **Concepts:** Data Structures & Algorithms, Ontology, Semantic Web, Design Patterns, UML, REST web services
- **Others:** Node.js, JBOSS Application Server, Apache Tomcat, Glassfish AS, Subversion (SVN), JIRA, Eclipse IDE, IntelliJ IDEA, VMWare VCloud, Linux Red-Hat, Windows Server, ITIL

SUBHANKAR DAS

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SUMMARY

Engineering and management professional with 12 years of experience in the Hi-Tech industry, leading several teams in successfully developing and shipping innovative products, both in the corporate and start-up environments.

EDUCATION

Massachusetts Institute of Technology Cambridge, MA
School of Engineering & Sloan School of Management June '17
Masters - System Design and Management (SDM) GPA: 4.9/5.0

Visvesvaraya Technological University Bagalkot, KA, India
Bachelor of Engineering, Electrical and Electronics July '03

WORK EXPERIENCE

SENSATA TECHNOLOGIES Jun 2016 – Aug 2016
Leadership Development Program Attleboro, MA & Aguascalientes, Mexico

- Designed an analytical tool for evaluating individual parts holistically to make data-driven decisions. Successfully deployed the tool for an entire family of products, with estimated profit of \$1.3M over next 5 years
- Developed framework, discovered systemic process gaps, recommended and implemented long-term mitigation plans, for effective management of End-Of-Life and Service parts with long product life cycles of 20+ years

TEXAS INSTRUMENTS Aug 2011 – Aug 2015
Team Lead, Microcontroller and Embedded Processing Bangalore, India

- Led a team of 8 to design and develop both ultra low-power and high speed digital standard cell libraries that formed the building blocks of almost all chips, across multiple technology nodes (130nm-28nm)
- Spearheaded efforts on building a robust QC system with buy-in from several design teams; the system reduced bugs reported in field, improved design cycle times by 10% and increased yield by 20%
- Collaborated with global cross-functional teams across TI sites - Germany, Norway, China and USA to gather unique requirements of each team, to build and manage ~15 (6000 cells each) optimal, high-performance libraries
- Awarded "Team TI-tanium award" thrice, for the most innovative project within a 300-member Business Unit
- Mentored 9 interns; identified and hired competent candidates to create a very technically competent workforce

AMD Jan 2011 – Aug 2011
Team Lead, Technology and Manufacturing Group Bangalore, India

- Designed and developed High-speed Standard Cell Libraries for 30% area savings on 40nm/28nm nodes
- Recruited & mentored design team to grow from 3 to 11 members in 6 months to double the productivity

KARNATAKA MICROELECTRONICS DESIGN CENTRE Aug 2003 – Jan 2011
Project Manager and Member of Technical Staff Manipal, India

- Managed several technical teams with sizes ranging from 6 to 40 members. Teams included peers and seniors
- Hired and provided *on-the-job* training to 70+ engineers to power growth and competency of the company from 28 members to 350 members over 7 years. Awarded 1% shares of the company for my contributions.
- Core designer of a unique product line of High Definition miniature projectors, at Syndiant Inc. Dallas, TX
- Headed a 3-member team to decide Compensation and Leave policies for the company

PATENTS & PAPERS

- Low Area Enable Flip-Flop**, Co-Inventors – Soman P, USPTO – 20160191028, Status-Published
- A Standard Cell Design with Reduced Cell Delay**, Co-Inventors – Ramesh H, USPTO- 20160188758, Status-Published
- New High Performance and High Density Libraries in 65nm tuned for MCU, *TIITC, Dec-14 (Best Paper)*
- Design techniques for PPA improvements in C28.P libraries, *Texas Instruments Interconnect symposium, Feb-12*
- On-rail Passenger Information System, *VLSI Design and Test Conference, May-04*

ADDITIONAL INFORMATION

- Teaching Assistant** for Global Supply Chain Mgmt, B2B Marketing & Architecture of Complex Systems (MITx)
- Fellow, MIT Graduate Student Leadership Institute** - A selected group of 30, across all schools at MIT
- Avid food enthusiast and food blogger. Fluent in 5 languages – English, Hindi, Oriya, Bengali & Kannada

VARAG GHARIBJANIAN

1 Devonshire Pl, apt 1606, Boston MA, 02109 | 714.955.1123 | varag@sloan.mit.edu

EDUCATION

MIT SLOAN SCHOOL OF MANAGEMENT

CAMBRIDGE, MA

Candidate for M.S., Systems Design and Management, June 2017

2015 – PRESENT

- Product management intern for Lightwave, a bio-analytics wearable startup in SF
- System architect of digital platform for Hyperloop Transport Technologies (HTT)
- Co-President of Product Management Club - Member of Technology and Entrepreneurship & Innovation Clubs

UNIVERSITY OF CALIFORNIA, IRVINE

IRVINE, CA

Bachelor of Science in Civil Engineering, June 2011

- Led a four-student team in the design of a multi-story recreational building (senior design project)

EXPERIENCE

APPLIED MATERIALS

SANTA CLARA, CA

The largest global provider of semiconductor equipment, software, and services with over \$9B in revenue

SUMMER 2016

Summer Associate

- Researched and developed market entry strategy in Augmented and Virtual Reality (AR/VR) industries, identifying and creating partnership and venture opportunities. Worked closely with Advanced Technologies Group to define technology roadmap
- Researched the key evolutions of hardware technologies in 5G wireless infrastructure and devices, improving product portfolio and roadmap of largest Business Unit (BU) by revenue
- Collaborated with corporate venture team to conduct technical and market due diligence on a leading AR/VR hardware startup

ENDEAVOUR PARTNERS LLC

CAMBRIDGE, MA

A business strategy and Intellectual Property consulting firm for large technology companies

2013 - 2015

Senior Consultant

- Led a team of consultants in defining the partnership strategy between the largest mobile device manufacturer and two largest wireless carriers, leading to a joint business venture, new product concept, and clearly defined go to market strategy
- Advised nine technology startups (in the education, transportation, energy, and healthcare industries) on their business model, product, and marketing strategy, increasing valuations for portfolio companies of major Venture Capital client
- Managed client relationship, project schedules/budgets, and led 10-person team to quantify the commercial value of an Intellectual Property (IP) portfolio of 40,000 wireless patents in a licensing deal for an enterprise valued at over \$160B)
- Analyzed and valued IP portfolios of eight technology companies to help second largest wireless carrier identify strategic partnerships, supporting launch into wearable technology market
- Led a two-consultant team to evaluate and assess capabilities of top 10 financial company's software portfolio and architecture, quantifying strengths and weaknesses that enabled client to invest in suitable acquisitions
- Managed research and analysis of the mobile/wireless market with a 10-consultant team in three IP infringement before the International Trade Commission (ITC) on behalf of the world's largest mobile device manufacturer, leading to repeat business with a client who became the firm's largest in terms of revenue
- Analyzed mobile barcode recognition algorithm for the largest global online retailer in an IP dispute, helping client demonstrate key technical differences from competitors' technology and the claimed patent

SVS CONCEPTS LLC

ANAHEIM, CA

A mobile technology startup developing solutions for self-storage security systems

2012 - 2013

Co-Founder

- Led a team of four developers and designers to develop mobile application that could control storage security systems. Led business plan development and product launch strategy, resulting in successful deployment in several facilities

WADDELL & REED

LOS ANGELES, CA

An asset management and financial services company with over \$100B in AUM (Assets Under Management)

2010 - 2012

Financial Consultant

- Purchased, sold, and specialized in technology equities and funds on behalf of clients, increasing portfolios' values by 13%
- Received numerous performance awards including two-time National Advisor of the Week

MOBITIE LLC

NEWPORT BEACH, CA

The largest private wireless infrastructure company servicing the nation's major wireless carriers

2010 - 2011

Product Management Intern

- Co-invented and patented wireless communication technology, enabling smartphones to form mesh networks to send and receive data at advanced speeds without network infrastructure.
- Led and collaborated with engineering, design, consulting, patent, and executive teams to develop technology and business model, resulting in successful launch in several major venues

ADDITIONAL

Tutoring Plus: Tutor and mentor underrepresented Cambridge middle school students in math, reading, and writing

Venture Café: Track and analyze startup activity and funding data, support innovation events in the greater Boston area

SeedUP: Inventor of innovative packaging product that will be launching in the market later this year

Interests: Play and teach students classical piano, compete in table tennis, chess, and basketball

JOHN Y GILMORE

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<https://www.linkedin.com/in/gilmorej>

EDUCATION

Massachusetts Institute of Technology

School of Engineering & Sloan School of Management

M.S. System Design and Management

Finance Club, Member of Sloan Senate, Cohort Social Officer

Cambridge, MA

Aug 2016 - May 2018

West Point, United States Military Academy

Systems Engineering

B.S. Engineering Management

Regiment Commander for Summer Military Exercises (400 cadets), Alpine Ski Team 4 years

West Point, NY

Jun 2006 - May 2010

EXPERIENCE

U.S. Army Corps of Engineers, Middle East District

Winchester, VA/ Riyadh, Saudi Arabia

Project/Program Manager: Saudi Arabia, Yemen and Oman

Jul 2014 - Aug 2016

- As the youngest Project Manager for the Army in the Middle East, successfully sold the first of construction case in 32 years, an Apache airbase to the Kingdom of Saudi Arabia, budgeted at \$209 million— then sold two more cases
- Prepared, presented and signed a new advising contract with the Saudi Arabian Interior Ministry, allowing the US Government to bid on security contracts valued at over \$5 billion
- Established a new regional office in Saudi Arabia, including establishing business relationships with senior Saudi Leaders, creating initial protocols, negotiating for property and renovation of office and living buildings, and selling new construction and advisory contracts worth \$550 million
- Successfully managed the budget and schedule for the Military Construction (MILCON) program in Oman, meeting contract award timelines and customer requested changes resulting in the completion of a critical portion of a U.S. Military air base on time
- Led a technical team in acquiring funding and in designing a Yemen Coast Guard base project, despite substantial security hurdles, and despite limited technical knowledge within the host country

U.S. Army Corps of Engineers, Transatlantic Division

Winchester, VA/ Kabul Afghanistan

Aide-de-Camp for Division Commander (2-star General)

Feb 2013 - Jul 2014

- Successfully carried out the Commander's agenda from strategic priorities to daily business, working as a junior officer among a high-powered staff, and a diverse group of stakeholders
- Planned, prioritized and executed strategic reoccurring engagements with principle decision throughout the Middle East and Central Asia that included visits to 8 countries while engaging with foreign governments, U.S. governmental agencies and Allied Militaries
- Ranked as the #1 Captain of over 100 Company Grade Officers during General's command

U.S. Army, 1st Cavalry Division

Fort Hood, TX

Combat Engineer Company Executive Officer

May 2010 - Feb 2013

- Planned and implemented a maintenance plan for over 70 tactical vehicles, leading 180 soldiers in logistics and supply chain management with a budget of \$7 million annually, achieving the second-best readiness level of 36 companies
- Equipped, trained and maintained the company's 17 Bradley fighting vehicles and its crews for the Annual Combat Readiness Evaluation (Bradley Gunnery): the most important armored vehicle evaluation
- Selected over other senior Officers to take company Executive Officer position, and later brigade headquarters company Executive Officer position

Platoon Leader

- Led a 35-man Combat Engineer Platoon (Sappers) in north and central Iraq on over 125 combat patrols to disrupt enemy attacks and movements in the battle space

Assistant Operations Officer

- As the Officer in charge of planning operations for a battalion, built the plan used for base defense at Forward Operating Base Warhorse resulting in 75% reduction in enemy artillery attacks

ADDITIONAL

- Captain of West Point Ski Team for two years, current MIT Ski Team Assistant Coach
- Enlisted Infantryman for 2.5 years prior attending West Point; 82nd Airborne Division, Fort Bragg, NC
- Interests: Scuba Diving, Hiking, Tennis, Cycling

BURAK GOZLUKLU, PhD

EDUCATION

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- Massachusetts Institute of Technology** Cambridge, MA
School of Engineering & Sloan School of Management
M.S., System Design and Management 08/2015 – 06/2017 (expected)
- Middle East Technical University** Ankara, Turkey
Ph.D., Aerospace Engineering 09/2010 – 03/2014
- Pursued while full-time working; received fellowship due to the collaboration supported by TAI and Turkish Ministry of Sci.Tech.
 - Thesis Keywords: Computational solid mechanics, fracture mechanics, composite materials and programming.
- B.S. with Honors, Mechanical Engineering 09/2001 – 06/2006
- Minor degree on Materials and Metallurgical Engineering.

EXPERIENCE

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- MIT-SLOAN SCHOOL OF MANAGEMENT** Cambridge, MA
Research Assistant 1/2016 –
- Developing a new playable product development system dynamics game for the executive education at MIT-Sloan.
- TESLA MOTORS** Palo Alto, CA
Program Manager / Summer Intern 5/2016 – 8/2016
- Successfully delivered an electrical assembly of a Model-3 prototype, on time, as the Program Manager in HV Battery Engineering while collaborated with numerous overseas suppliers.
 - Stepped into different roles, such as harnesses design, to support the engineering team when it was necessary.
- TURKISH AEROSPACE INDUSTRIES (TAI)** Ankara, Turkey and Toulouse, France
Established by the Lockheed Martin and Turkish government in 1984 to manufacture F-16's. Today, TAI reached \$1 billion revenue, 4500 employees and shareholder of Airbus Military and risk sharing partner of Airbus in A350 project.
- Engineering Team Leader - Airbus A350 Ailerons* 12/2008 – 06/2015
- Team leader of 12-20 structural analysis engineers to develop Airbus A350 carbon-fiber reinforced composite ailerons (wing flight control systems) from conceptual phase to the first flight.
 - Acted as "Structural Analysis Signatory" who "approves" Airbus A350 ailerons safety under FAA/EASA regulations.
 - Innovatively decreased the design schedule by 6 months and non-recurring costs of the half-billion-dollar Airbus A350 ailerons project, some of which methods were employed by other teams in TAI and Airbus.
 - Introduced new methods in structural analysis and design of aero-structures; CAD, CAE, fatigue and damage tolerance, crashworthiness, weight optimization, stability, repair and failure analyses.
- Structural Analysis Engineer* 06/2006 – 12/2008
- Involved in the design of Airbus A400M Fuselage, Boeing 787 cargo barrier, and EU 6th framework research project.

AWARDS

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- Winner of NASA Space-Race Startup Challenge 2016 on Airborne Wind Energy Technology, more than 350 entrepreneurs participated, received media attention (2016).
 - Nominated to "International Forum for Aviation Research ICAS-IFAR Award 2016" organized by NASA (2015).
 - "The Thesis of the Year Award", from Prof. M. Parlar Education and Research Foundation in Turkey (2014).
 - "Outstanding Success Award", from the CEO of Turkish Aerospace Industries (2014).
 - "The Best Paper Award", from Society of Industrial Applied Mathematics (SIAM) at METU (2012).

PATENTS

-
- An Impact Energy Absorber (2067/TR - 2013/12568), Single inventor, Status: Issued.
 - A Curved Laminated Structure (EP3100852A1), One of the two inventors, Status: Issued.
 - A Three Dimensional Scalable and Modular Air Vehicle (2489/TR - 2016/05215), Single inventor, Status: Pending.

ACADEMIC ACTIVITIES *(list of publications on the next page)*

-
- Published more than 15 academic papers on engineering design and computational solid mechanics that were received 23 citations on Web of Science and 55 citations on the Google Scholar as of January, 2017.
 - Reviewer at International Journal of Crashworthiness and International Journal of Mechanical Sciences since 2016.
 - Acted as co-PI for R&D project with a grant of \$800k with my Ph.D. advisor and PI, Demir Coker (Caltech PhD'01).

LEADERSHIP ACTIVITIES

-
- Founded the Systems Thinking Club (STC) at MIT-Sloan, currently has more than 160 members in MIT (2016).
 - Volunteer mathematics teacher to visually impaired students in Turkish 6-pt. Blind People Association (2005-2006).
 - Licensed Wing-Tsun Kung Fu self-defense instructor since 2010 and one-brevet scuba diver.

CHAHAT JAIN

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+1 (617) 386-9369 | chahat@mit.edu

EDUCATION

Massachusetts Institute of Technology

Cambridge (MA), USA

School of Engineering & Sloan School of Management (GPA – 5.0/5.0)

August 2016 - February 2018 (expected)

M.S., Engg & Management (System Design and Management)

- Focus – Marketing, Strategy, Data Analytics, Innovation, Technology Management and Systems Thinking
- VP, Alumni Relations (SDM). Member - Product Management Club, Technology Club, Design Club, Net Impact Club
- Data Analytics Lab - Built a predictive model using machine learning and data mining to increase user engagement of an e-commerce website. Experience working with large data-sets.

PEC University of Technology

Chandigarh, India

B.E. (Hons.), Information Technology (GPA – 9.37/10)

July 2007- May 2011

- 1 of 395 in the university to be awarded both Gold Medal (highest GPA in my discipline) and Honors degree

EXPERIENCE

SAP Labs India Pvt. Ltd.

Bangalore, India | Palo Alto, United States

Product Owner / Sr. Software Engg, B2B/B2C solutions (Retail, Utilities, and Banking industries)

July 2011 - June 2016

Product Management, Cross-functional Leadership, and Project Management

- Ideated and launched eight features of cloud CRM (SAP Cloud for Customer) add-in solutions (150+ live customers)
 - Prioritized requirements, collaborated with multiple stakeholders, and led development of four solution releases
- Working with UI/UX designers, conducted product design analysis (using design thinking) and played a key role in the ideation to launch process of SAP's first B2C solution - SAP Utilities Customer Engagement mobile application
- As scrum-master/development lead, led cross-functional teams of 14, 8 and 6 members (for three project releases) across US and India locations for agile development of ~\$14M Retail In-Store customer engagement solution
- Handled project scope, task estimation & scheduling, and quality adherence for timely delivery of three project releases
- Managed team of four developers to develop a Micro-ATM solution (for rural India) as part of SAP Ganges project (B2B Retail Network). The platform was bought by a financial institution in India to strengthen its financial inclusion efforts

Client Engagement, Product Design & Development, and Process Optimization

- Managed 25+ clients (across 10 countries) single-handedly to solve critical issues, improving client satisfaction by 15%
- Reduced average time of fixing a customer issue by 45% using data-driven approach to redesign business process
- Led full-stack design and development of product features, application modules and m-commerce platform for the successful release of six mobile and cloud solutions, generating \$9M+ revenue for the company
- Produced optimal recommendations for four utilities clients to adopt a mobile solution as per their business requirements
- Developed five internal code generation tools that helped save ~400 man-hours in project deliverables

Awards and Accomplishments

- Awarded 'Move SAP Award' (Top 2% employees) for successfully managing a solution single-handedly from India
- Recognized as 'Global Top Talent' (Top 5% employees) for extraordinary contribution and leadership
- Conferred 'Spot award' and 'Recognition award' for initiatives in enabling project success and customer success

eVidyaloka Trust (NGO connecting passionate volunteers to teach children of rural India)

Bangalore, India

Program Manager & Curriculum Administrator (Volunteer)

May 2014 - Present

- Increased volunteer participation by 20% by designing a workflow for Content Development Engagement
- Managed 186 volunteers for development of high quality course material as part of a Corporate Engagement Program

HeRu Technologies Pvt. Ltd. (Tech Start-up providing low cost enterprise solutions)

Bangalore, India

Co-Founder & Solution Architect

March 2015 - July 2016

- Gathered business requirements from clients (Founders of NGOs), and defined the roadmap of technology solutions
- Constructed business strategy for the company as well as pricing strategy for the ~\$1M product portfolio
- Worked on-site with senior management of Goonj, amongst top five NGOs in India, to understand business problems

ADDITIONAL INFORMATION

- Mentored employees and improved business operations of an early stage tech start-up (cheerzlabs.com, India) that provides technology services, resulting in 12% YoY growth of the startup
- Spearheaded a civil society campaign that lead to participation of 500+ people to increase awareness about 'Lokpal Bill'
- **Technical Skills:** Java, C, C#, JavaScript, Python, Web-Services, Shell Scripting, Algorithms, Data Structures, SQL, R
- **Interests:** Cooking, practice mindfulness, and reading books & articles (especially about start-ups and venture capital)

DAVIDE LASI
davide.lasi@sdm.mit.edu

EDUCATION

Massachusetts Institute of Technology Cambridge, MA
School of Engineering & Sloan School of Management
M.S., System Design and Management 08/2016 - present

University of Milano

Department of Chemistry Milano, Italy
M.Sc., Physical-Chemistry, graduated with honors 09/2004 - 07/2006

- Thesis: developed new methods in the field of the Quantum Theory of Atoms in Molecules.

B.Sc., Chemistry, graduated with honors 09/2001 - 10/2004

- Thesis: built and tested a Mössbauer Spectrometer at the National Institute of Nuclear Physics.

EXPERIENCE

University of Bern, Space Research & Planetary Sciences (Physics Institute) Bern, Switzerland
Provider of scientific instrumentation for space exploration missions of ESA, NASA, and Roscosmos.

Project Manager 05/2011 - present

- Lead two teams of 8 and 9 engineers (mechanics, electronics, and software), thermal and structural modelers, and scientists for the design and development of three leading-edge mass spectrometers for space missions.
- Negotiate and supervise industry contracts for the development of software and hardware.
- Chair meetings and design reviews with contractors. Draft and implement new agile-contract models.
- Represent the projects at the European Space Agency (ESTEC Headquarters) and at the Space Research Institute of the Russian Academy of Sciences (IKI) on occasion of major design reviews and project meetings.
- Plan and execute radiation tests of detectors and materials at electron and proton irradiation facilities.

Cerbios-Pharma SA

Pharmaceutical company manufacturing both chemical and biological APIs and HPAs. Lugano, Switzerland

Material Manager (50%) & Project Manager (50%) 05/2008 - 04/2011

- Procured advanced pharmaceutical intermediates from China and India; drafted new model of supply agreement; negotiated supply contracts and attended trade fairs and suppliers' site visits in Europe and China.
- Collected and analyzed requirements to define optimizations of the company ERP (Oracle E-Business Suite) for the optimal and GMP compliant handling of materials and their specifications through their complete lifecycle.

Dipharma Francis Srl

Generic active pharmaceutical ingredients manufacturer with a strong portfolio of more than 150 patents. Milano, Italy

Assistant to the Head of Intellectual Property 04/2007 - 04/2008

- Drafted, filed, and prosecuted patent applications in Europe, USA, Japan, India, China, Israel, and Canada.

PROFESSIONAL DEVELOPMENT

Scrum Alliance® London, United Kingdom
Certified Scrum Product Owner (with Mike Cohn), employer sponsored. 03/2015

Stanford Centre for Professional Development

Stanford Advanced Project Management Certificate, employer sponsored. Stanford, CA

03/2013 - 09/2013

SELECTED PUBLICATIONS

- **D. Lasi**, M. Tulej, S. Meyer, M. Lüthi, A. Galli, D. Piazza, P. Wurz, D. Reggiani, H. Xiao, R. Marcinkowski, W. Hajdas, A. Cervelli, S. Karlsson, T. Knight, M. Grande, and S. Barabash, *Shielding an MCP detector for a space-borne mass spectrometer against the harsh radiation environment in Jupiter's Magnetosphere*, IEEE Trans. Nucl. Sc. 99 (2016).
- P. Wurz, **D. Lasi**, N. Thomas, D. Piazza, A. Galli, M. Jutzi, S. Barabash, M. Wieser, W. Magnes, H. Lammer, U. Auster, L. Gurvits, and W. Hajdas, *An Impacting Descent Probe for Europa and the other Galilean Moons of Jupiter*, Earth, Moon, and Planets (2017) submitted.
- C. Gatti, **D. Lasi**, *Source function description of metal-metal bonding in d-block organometallic compounds*; Faraday Discussions; 135:55-78; discussion 125-49, 503-6 (2007).

SPORTS & HOBBIES

Sailing regattas, surfing, windsurfing, scuba diving, ski, 4x4 road trips, chess, contemporary photography, playing piano.

Ben Linville-Engler | [linkedin.com/in/ben-l-e](https://www.linkedin.com/in/ben-l-e)

EDUCATION

Massachusetts Institute of Technology

School of Engineering & Sloan School of Management

M.S., System Design and Management

- MIT/The Engine Working Group, Sloan Senate, GEL Program Mentor, BloomerTech Advisor, Hacking Medicine

Cambridge, MA

Aug 2016 – Jan 2018 (expected)

University of Colorado

School of Engineering

B.S., Mechanical Engineering, Biomedical Option

Minor Biochemistry

Boulder, CO

Aug 2003 – May 2007

EXPERIENCE

Applied Medical

A new generation medical device company committed to improving the quality, affordability, and accessibility of healthcare.

Applied Medical Europe | Amersfoort, Netherlands

Vice President, Product Development and Engineering - Europe

January 2015 – August 2016

- Enabled the expansion of Applied Medical Europe from a sales and distribution organization to include medical device design, equipment service, and manufacturing in coordination with US teams.
- Supported the European sales teams by working directly with surgeons, nurses, biomedical engineers, and other decision makers within hospitals and group purchasing organizations to enable new, and maintain existing, sales.
- Defined and implemented field data collection process to establish analysis of qualitative usage data and quantitative system performance data for the Voyant product line, leading to significant product improvements.

Applied Medical Resources | Rancho Santa Margarita, CA

Vice President, Technology and Development – Electrical Systems

September 2011

- Defined, built, and led a new organization focused on the development of medical electrical systems resulting in the hiring of 50 new team members in approximately 2 years.
- Defined and led the expansion effort of the existing quality system (ISO 13485) to include medical electrical equipment product development and manufacturing.
- Maintained the division budget (\$15M), resource plans, and organizational plans. Including resource matrix assignments, project/product prioritization, product development timelines, cost estimates, facilities planning, and product/feature feasibility studies.
- Coordinated cross-functional product development between Engineering, Clinical Marketing, Regulatory, and Quality Systems teams by providing project management, direction, and leadership for product lifecycle.
- Culminated in launch of the Voyant Electrosurgical System; targeted at a \$3B market segment with potential revenue gains of up to 5 times company's annual revenue.

Director, Technology and Development

February 2010

- Led team design of new products and development of prototype electrosurgical generator with contract developer.
- Continuously grew and trained team with focus on electrosurgical product development for laparoscopic procedures.

Manager, Technology and Development

August 2008

- Coordinated the implementation of product development plans, schedules, and designs throughout product lifecycle.
- Reorganized development team structure to better utilize resources and enable technical development of less experienced engineers by redistributing experienced engineers across development teams.

Product Development Engineer, Technology and Development

February 2008

- Worked within a mechanical engineering team responsible for the design of laparoscopic instruments.
- Coordinated with material vendors, tooling designers, manufacturing, and planning to bring designs into production.

MANUFACTURING TRAINING

- Injection molding, plastic and metal extrusion, sheet metal forming, progressive die stamping, and CNC machining
- PCB/PCBA processes, electronics product assembly, automated assembly, and cleanroom production.
- Capital equipment post-production service management and customer preventive maintenance

REGULATORY TRAINING AND SOFTWARE TOOLS

- | | | |
|--|---|------------------------------|
| • IEC 60601-1 3 rd Ed. Family (UL) | • Solidworks (MCAD), Altium (ECAD) | • Software Development/Build |
| • ISO 14971 Risk Management (UL) | • SAP (ERP, MRP, PLM) | • IAR Workbench |
| • IEC 62366 Usability (UL) | • PTC Integrity (Client and Admin) | • Parasoft, Coverity |
| • IEC 62304 Software Development for Medical Devices | • Microsoft Office, Projects, and Visio | • Jenkins |

ASWINI NARAYANA PRASAD

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

School of Engineering & Sloan School of Management

Sep '16- (*Expected completion: Jan '18*)

M.S., Engineering Management

- Specialization: Manufacturing and Supply chain, systems thinking, technology management
- Thesis: Risk analysis & Mitigation solutions for Electric vehicle Li-ion batteries
- Action Projects under progress:
 - Competitive benchmarking & market strategy for ISEE, a Boston startup for Autonomous driving s/w solution
 - Trade space analysis and operational strategy for autonomous charging stations for GM

Indian Institute of Technology Delhi

New Delhi, India

M.Tech. Design Engineering

Jun '09 – July '11

- Thesis: Computationally Efficient Structural Analysis of Composite Fuselages (Won DAAD scholarship to undertake thesis work at RWTH Aachen University, Germany for 9 months)
- 3 international publications in Computational Design and Analysis

College of Engineering Guindy, Anna University

Chennai, India

B.E. Manufacturing

Jun '05 – May '09

EXPERIENCE

Research Assistant | MIT, Cambridge | Aug '16 – Present

- Program Manager for Industrial Consortium at MIT for modeling of Electric Vehicle Li-Ion batteries

Engineering Team Lead, Vehicle Electrical Business | Eaton India Innovation Center | Mar '14– July '16

- Lead & Program Manager for development of power distribution and power conversion products for heavy duty vehicles – demonstrated timely product launches by close collaboration with manufacturing and supply chain teams – Toll gate and agile program management
- Led VAVE projects for cost out & part consolidation across global manufacturing plants - demonstrated cost savings over \$30K per year per product line
- Reduced product testing cost >20% by replacing physical tests by FEA and analytical modeling

Senior Engineer, Vehicle Powertrain Business | Eaton India Innovation Center | Aug'13-Feb'14

- Designed the exhaust energy recovery system for heavy duty diesel vehicles – demonstrated nearly 8% reduction in fuel consumption
- Design and optimization of conventional and electric boosting solutions (superchargers) for light duty engines using GT-Suite software

Engineer, Technology Advancement Team | Eaton India Innovation Center | Aug '11-Aug '13

- Part of Eaton's Engineering Technology Leadership Program (ETLP) - 2 years rotational program – recognized as one among top 5% candidates at Eaton India.
- Established in-house computational modeling and testing capabilities for composite materials by working closely with supply chain and purchase teams to establish vendors and external test lab partnership.
- Pioneered Fuel Economy simulation for light duty and heavy duty vehicles using GT-Suite software

OTHER ORGANISATIONAL INVOLVEMENTS

- Co-led strategic initiative at Eaton “Building an Integrated Innovation Framework” – Won Eaton APAC award (2012) for Continuous Improvement
- Core organizer of annual global technical event of Eaton India with 200+ global participants – first of its kind to bring engineering, manufacturing and marketing leaders and experts together to focus on regional innovation (2013)
- Green Belt certified in Design for Six Sigma – Also organization wide mentor, reviewer and trainer for Design for Six Sigma

Adrien MOREAU

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amoreau@mit.edu

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
2016- expected 2018

Delft University of Technology

Delft, The Netherlands

Civil Engineering Department

PhD., Water Management and Sanitary Engineering

2006-2010

- Conducted research within the framework of the European Union Marie Curie program focusing on the membrane bioreactor (MBR) process.
- Thesis: MBR Filterability Assessment at European Scale
- Full publication list available on request

National Institute of Applied Science (INSA)

Toulouse, France

Chemical & Process Engineering Department

M.S., Process Engineering

2003-2006

- Specialization in water treatment

EXPERIENCE

Veolia Water Technologies

Boston, MA

Global Support Engineer - Technology

2016 - Present

- Develop, lead and coordinate technical risk management and support through hydraulics and modeling for Veolia activities (model difficult cases & different options with regards to tank geometry, mixing capacity and water distribution, validate final designs)
- Develop and lead piloting coordination and strategy at corporate level with a specific focus on branding and safety
- Lead and promote Research & Innovation projects with external partners (Department of Energy funded projects)
- Produce strategy notes and roadmaps on behalf of Executive Management (Digitalization, Internet of Things)

Hydraulics Expert

2013-2016

- Develop, lead and coordinate technical risk management and support through Hydraulics and CFD modeling for Veolia activities (modeled difficult cases & different options with regards to tank geometry, mixing capacity and water distribution, validated final designs)
- Lead product development (early phase & industrialization of a grit removal process and a pretreatment for industrial water treatment plants)
- 30+ projects assessed and validated (150M\$+ worth value)

Veolia Environnement Research & Innovation

Paris, France

Project leader – membrane bioreactor (MBR) portfolio

2010-2013

- Provide project leadership and operational management on projects related to the integration of membrane processes in wastewater treatment line (4 technicians, 2 engineers, 3.4M€ over 3 years)
- Successfully developed an MBR package plant for the Middle-East Market
- Successfully brought an airless MBR concept to industrialization

ADDITIONAL SKILLS & INTERESTS

- Fluent in French & English
- Key areas of expertise: membrane processes, biological treatment, operational management
- Water & Sanitation Engineer for the Non-Governmental Organization “Premières Urgences”
- Active member of the Veolia Force (missions for the UNHCR in Ethiopia, 2012)
- Rock climbing, mountaineering

LORENA PELEGRIN

Lorena.Pelegrin@gmail.com

www.linkedin.com/in/lorena-pelegrin-01b64b2

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
Sep 2016-2018 (expected)

University of York
Pg.Cert., Safety-Critical Systems Engineering
Part time Continuing Professional Development

York, UK
2009-2014

Heriot-Watt University
M.S., Safety, Risk and Reliability Engineering
Part time distance learning program

Edinburgh, UK
2007-2012

Massachusetts Institute of Technology
Master Thesis, System Engineering and Safety Management
Graduate work completed in the frame of the Safety, Risk and Reliability Engineering degree

2012

Universitat Politecnica de Catalunya
M.S., Industrial Engineering

Barcelona, Spain
1997-2002

California State University, Fresno
Master Thesis, Structures and Industrial Management
Graduate work completed in the frame of the Industrial Engineering degree

Fresno, CA
2002

EXPERIENCE

Restrata
Consulting company in HSE and technology enabled solutions.

Abu Dhabi, United Arab Emirates
Jul 2015-Jul 2016

Principal Consultant

Coordinating a 6 people team providing services in Technical Safety, Risk Management, and Health Safety Security and Environmental Management in Oil & Gas and Energy projects, incl.:

- Managing consulting projects;
- Chairing workshops and carrying out studies;
- Mentoring junior and senior staff;
- Developing business in the Middle East and Asia Pacific regions;
- Preparing proposals for consulting projects;
- Supporting regional management in the development of Middle East and Asia Pacific strategies;
- Supporting regional management with reporting and forecasting.

ILF Consulting Engineers
Engineering and consulting company in Oil & Gas and Energy.

based in Munich, Germany

Competence Manager Technical Safety

Nov 2009-Jul 2015

Being the focal point for all questions in regards of Technical Safety and Risk Management within the ILF Group of companies worldwide, incl.:

- Coordinating a dedicated virtual team of approx. 10 people based at different locations worldwide in order to align practice within the ILF Group of companies;
- Developing recommended practices for different elements of Technical Safety and Risk Management to be implemented within the ILF Group of companies;
- Administering and disseminating knowledge in terms of regulatory requirements, standards, recommended practices and literature;
- Organizing participation in events and webinars hosted by interest groups;
- Delivering in-company training within the ILF Academy program;
- Interfacing with other competences (e.g., security engineering) as to identify and manage overlaps and potential synergies in project work;
- Organizing review and discussion of industry accidents and lessons learned.

Team Lead Technical Safety and Risk Management

Jul 2012-Jul 2015

Leading a 5-8 people team providing the ILF Group of companies worldwide with services in Technical Safety and Risk Management in Oil & Gas and Energy projects, incl.:

- Managing consulting projects;
- Leading the Technical Safety and Risk Management scope of engineering projects;
- Mentoring junior and senior staff;
- Establishing and supporting professional development plans for junior staff;
- Supporting business development with pre-qualifications, proposals and technical negotiations for consulting and engineering projects.

Consultant Loss Prevention and Risk Management

Apr 2008-Jul 2012

- Performing Safety and Risk Management consulting for a variety of projects;
- Carrying-out optimization studies for oil and gas transportation systems;
- Supporting business development with pre-qualifications, proposals and technical negotiations for consulting and engineering projects.
- Lorena built a team of 3-5 people providing Technical Safety and Risk Management services and established the discipline as such in the company.

Project Management Specialist

Jan 2005-Apr 2008

- Developing and implementing Project specific HSEQ Management Systems, Scheduling and Project Control in a variety of projects.
- Lorena was Head of Project Controls for the Engineering, Procurement and Construction Management (EPCM) of the SNOx (combined SOx - NOx reduction) Plant in the OMV Refinery Schwechat in Austria.

Expediting and Inspection Specialist

Nov 2003-Jan 2005

- Managing and performing expediting and inspection of equipment manufactured and/ or provided by suppliers.

Meritor

Frankfurt am Main, Germany

Requirements Engineer

Apr 2003-Nov 2003

- Developing a PDM (Product Data Management) based application for incorporation of production planning elements of an electric sunroof manufacturing plant.

SKILLS AND ADDITIONAL INFORMATION

- Native or bilingual proficiency in Spanish and Catalan. Full professional proficiency in English and German. Limited working proficiency in Italian and French. Elementary proficiency in Japanese.
- Work experience in Spain, UK, USA, Germany, Austria, Netherlands, Italy, Hungary, Finland, Kazakhstan, Romania, Bulgaria, Switzerland, China, Pakistan, Poland, Qatar, Russia, UAE, Ukraine and Turkey.
- Certified ISO 9001 Internal Auditor.
- PHA Pro, Bow-Tie XP, DNV PHAST and PHAST Risk, Witness Process Simulation, GRIF (GRaphical Interface for reliability Forecasting), @RISK for MS Excel, @RISK for MS Project, Primavera, Primavera Risk Analysis (previously named Pertmaster), Smartplant Enterprise Information Management, MatrixOne, TiCon, VBA, ANSYS, AutoCAD, MicroStation, C.
- Multiple publications on Safety and Risk Management. Citations available on request.
- Program Committee Member of the European STAMP (Systems-Theoretic Accident Model and Processes) Conference.

JOLLY PRADHAN

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Somerville, MA, 02145
603-682-3851
jpradhan@mit.edu

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
Sept 2015-Present

Rensselaer Polytechnic Institute
Bachelor of Science in Mechanical Engineering

Troy, NY
Dec 2009

EXPERIENCE

Varian Semiconductor Equipment Associates
Systems Engineer
Crion Cold Implant

Gloucester, MA
Sept 2010-July 2015

- Crion is a cold system that enables customer to implant wafers at -100°C. The system consists of cryo-chillers, a vacuum-sealed valve system, and cooling ring to cool the implant mechanism.
- Conducted and documented characterization tests for Crion by validating cool down rate, throughput, wafer temperature uniformity and overall functionality of the system.
- Operated the tool during 40 continuous hours of reliability growth testing and helped release the product from R&D to Production.
- Supported customer escalations by analyzing archives from the field and determining root cause of the customer problems.

26-Wafer Implementation

- Led the project with a team of mechanical engineers, an electrical engineer and software engineers to create new hardware as well as software controls to implement the platen warm-up process. Released the hardware through ECO process to Production and conducted tests to help with software release.

Center for Earthquake Engineering Simulation
Research Engineer

Troy, NY
Jan 10-Sept 2010

- Operated and troubleshooted earthquake simulation machinery (centrifuge) while conducting experiments.
- Gained hands-on experience by preparing and sealing centrifuge laminar container with Ph.D. students while using strain gauges, accelerometer, and pressure sensors.

LEADERSHIP POSITIONS

Fusion Engineering Development Program
Graduate

Sept 2010-Sept 2012

- This is a program for new graduates at Varian to expose them to various engineering departments within the company and to experience presenting to upper management.
- Rotated through End Station (Robotics), Continuous Improvement and Physics Department (R&D).

Women's Mentoring Program at RPI
Co-Chair

Sept 2006-Sept 2008

- Developed a new program providing opportunity for mentors and mentees to meet prior to the start of the school year. As a result of its success, this is now an annual program. Organized formal and informal events including: Chat with Shirley Ann Jackson (President of RPI) and Design Your Future Day to encourage women in science and engineering.

TECHNICAL SKILLS

- Expert in Signal Analysis and Archive Analysis
- Proficient in Microsoft Excel, Microsoft PowerPoint, MINITAB Statistics, Adobe Illustrator, and Adobe Photoshop. Basic knowledge 3D CAD Modeling (SolidWorks and ProE), LabVIEW, and MATLAB.

ATIKHA RIZWAN

5F-2, Tang Residence Hall, 550 Memorial Dr
Cambridge, MA 02139
Mobile: +1 (857) 253-9356
Email: atikha@mit.edu

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
Sep 2016- May 2018(expected)
CGPA 4.6/5.0 (current)

Andhra University
College of Engineering
B.Sc.Eng. & M.Sc.Eng. Electronics & Communication Engineering

Visakhapatnam, India
Aug 2010 – Sep 2015
CGPA 8.0/10.0

EXPERIENCE

Massachusetts Institute of Technology
Teaching Assistant

Cambridge, MA
16th Jan – 31st May 2017 (spring term)

- Introduction to CS and programming in Python; Computational thinking and data science

Infosys Limited (Post graduation)
Systems Engineer

Mysore, India
December 2015 - June 2016

- Ranked among top 5% in rigorous training in python programming language, database management systems and specialized in SAP (Systems, Applications, Products) with focus on ABAP (Advanced Business Application programming).
- Developed a game using SQL server, and also a college and course bidding platform in SAP.

Grameena Vidya (Full-Time before graduation)
Director

Visakhapatnam, India
February 2012 – November 2015

- Managing a non-profit NGO which provides digital education to rural schools to bridge the digital divide, led teams to install 1400 smart classrooms in village schools, providing digital education to over 600k of India's most challenged students and training over 7000 teachers.
- Powered through huge resistance from teachers by conducting diagnostic tests and surveys. Won the Best Mentor award and Employee of the Year award in 2013.
- Led the organization towards better funds management by cutting costs per classroom through organizational strategy and logistics operations. Replaced CPUs with digi box with an android app to load and play the class specific content. Cost of digi box being 10% of the cost of a CPU, the savings were \$1.8m.
- Took the initiative to develop a mini bio-gas power plant using animal and farm waste involving local rural population in its operation. This provided a reliable, sustainable and environment-friendly source of energy for the schools and villages. Won the Best innovator award, 2014 for this achievement.

Consolidated Education Technologies (I) Pvt. Ltd. (Part-Time before graduation)
(Provides online and offline digital teaching and learning resource for K-12)
Content and Portal developer

Visakhapatnam, India
January 2011 – January 2012

- With a well planned manoeuvre, developed portal www.teachlearnweb.com and smart classroom content. Coordinated between subject experts' team and multimedia developers' team. The portal has over 200K subscribers.

ADDITIONAL

- BMW supply chain resilience improvement - Currently working on this real-time project at MIT.
- Internship at Defence Research and Development Organization (DRDO), Govt. of India – worked on a project titled "Design of degaussing electronics for ring laser gyro." Summer 2013
- Internship at State Bank of India (SBI) – in retail loan processing cell. Summer 2014
- Started a non-profit NGO – "Hum Aapko"- in college, to raise funds, collect used books and equipment for lesser privileged students in rural areas. In addition, before the general elections 2014, ran a campaign to spread awareness about the democratic electoral process among inner city and rural uneducated people. Got them registered as voters.
- Volunteered as a weekend mentor (2011-12) at SOS (Save Our Souls) - an International organization for orphans.
- Won Gold and Silver medals in Lawn Tennis and Table Tennis at college for all five years.

Karan Sachan

Tang Hall # 06B3, 550 Memorial Dr, Cambridge, MA - 02139
+1 617.401.5822 | ksachan@mit.edu

EDUCATION

Massachusetts Institute of Technology

School of Engineering & Sloan School of Management

M.S., Engineering and Management

- VP of Marketing, Product Management Club; VP of Alumni relations, MIT-SDM
- Core Member of Digital Currency Initiative, a group focusing on Blockchain and AR/VR at MIT Media Lab

Cambridge, MA

August 2016 - Present

JSS Academy of Technical Education

B.Tech (with Honors), Information Technology

- Graduated 1st /117 students in my department & among top 5% of university B.Tech batch of ~23,000 students

Noida, India

July 2005- May 2009

EXPERIENCE

Wishing Well Technologies Pvt. Ltd.

Co-founder & Head – Product & Engineering

- Successfully led fundraising efforts to build MVP, raising \$500K from investors including ex-Fortune100 CEO
- Led the design and development of platform (Web & Mobile) through new data-driven approach, resulting in a 97% increase in signups, doubling of mobile traffic time-on-site, and growing visitor traffic at non-peak times by 20%
- Finalist of India's most premier start-up challenge – '10000 start-ups' by NASSCOM; over 9000 start-ups applied

Bangalore, India

October 2014 – August 2016

Reliance Industries Ltd.

Product Manager - Smartphone / Cloud Solutions – Saas & IaaS

- Selected among 30 candidates out of 30,000+ for the most renowned Leadership Development Program in India
- Product/Program Manager for \$120M product portfolio; Responsible for delivering product from ideation to launch
- Successfully built the world's most economical 4G smartphone by focusing on 80:20 rule for feature-usage metrics driven by usability studies and eliminating less valuable components, improving Bill of Material (BOM) by 37%
- Managed strategic vendor worldwide and grew partner ecosystem by 300% (incl. Fortune 500 companies), reducing the time to market by 23% and cutting down run-rate expenses and budgeted capital expenditures by 17%
- Led Open Mobile Project from Reliance in collaboration with Govt. of India, Facebook's Internet.org, and Google's Project Loon to provide Internet connectivity to 500+ millions Indians in rural and remote areas
- Filed 4 key patents around security architecture of smart devices, strengthening intellectual property of our product
- Spearheaded product awareness and partnership by showcasing product at Mobile World Congress - Barcelona, attended by nearly 100,000+ participants from 190 countries and 3,600+ members of the international media

Bangalore | Mumbai, India

July 2013 – August 2016

Qyuki Digital Media Pvt. Ltd.

Product Manager & Data Scientist

- Led the development of data science competencies for the platform, driving traffic up by 43% and increasing avg. time spent per user per month by 33 mins; Increased EBIT by 37% by pushing personalized ads to customers
- Increased viral invites by 27% by implementing a social graph to connect through Facebook and Google+
- Drove strategic product development by facilitating a feedback loop among engineering, sales, and marketing/PR

Bangalore, India

August 2012 – July 2013

Motorola Mobility Inc.

Senior Engineer, Motorola Innovations Lab

- Awarded 'Innovator of the Year' in 2011 across all Motorola facilities for ideating the initial modular phone concept in a hack-a-thon, which later matured and pursued by Google as 'Project ARA'
- Outlined and designed welcome experience for new and returning users of Motorola devices, introducing them to a completely re-imagined product experience including landing screen layout and guided tour for feature walkthrough
- Managed UserVoice account that aggregates user feedback to make data-driven decisions and prioritize product ideas. Determined top addressable issues by churning and analyzing data and led teams to resolve these issues

Bangalore, India | Chicago, USA

July 2011 – August 2012

ADDITIONAL INFORMATION

- **Technical Skills:** Java, Cloud, Hadoop, Machine Learning, Python, R, NoSQL, JIRA, Google Analytics, Tableau
- **Certifications:** Harvard's HBX CORE; Scrum Alliance's Agile ScrumMaster; Design Thinking from Lynda.com
- Awarded Global Leaders scholarship by Fujitsu-JAITS and Young Leader Program scholarship by Govt of Japan
- Invited as Delegate in 12th World Business Dialogue at Berlin and in Preparing Global Leaders Academy at Jordan

SWATI SHAH

Tang Hall Apt #5F-1, 550 Memorial Dr,
Cambridge, MA 02139, United States
+1(858)-265-8603
swatis@mit.edu

PROFILE

- Extensive product management experience both in data warehousing and business intelligence applications in a variety of industries including telecommunications and healthcare.
- Passionate about building stuff from scratch and managing them through data driven decisions.
- Proven track record in execution, working well with engineering, operations, support and other cross-functional & executive teams.
- Managed several projects from end to end starting from conceptualization till production go-live and business to operations handover.
- Proficient in Agile Methodology (Scrum, Kanban, User Story Writing, Sprint Management, Backlog Prioritization)
- Strong expertise in Data analysis, Business Analytics, Data mining, Business Intelligence Tools and managing ETL applications in client/server architecture and Data warehouse environments.
- Experienced in using SQL Clients for Relational Databases like Analytical Query Tool, DB2 Client, PL/SQL Developer and Squirrel, Unix Shell Scripting, DB2, C++, AIX, SQL
- Excellent communication skills, interpersonal and leadership skills. Self-motivated, quick learner and a team player.

EDUCATION

MIT School of Engineering & Sloan School of Management

Cambridge, MA

M.S., System Design and Management, *CGPA: 4.8/5*

08/2016 – 01/2018

- Subjects: Product Management; Marketing Management; Risk And Decision Analysis; Architecting and Engineering Software Systems, B2B Marketing, Data Mining, User Interface Design and Implementation
- Chair, WiSDM: Organized events to build strong community for Women for personal and professional support.

University of Rajasthan

Jaipur, India

Bachelor of Engineering in Electronics & Telecommunication

05/2002 - 05/2006

EXPERIENCE

Strado

Jaipur, India

Product Strategist

02/2016-05/2016

- Designed a Hyperlocal Business Aggregator to invigorate the despondent scene of nightlife, clubbing and respites in India by using systemic product offerings to eliminate inhibitions in youngsters and reduce the price barriers.
- Developed product positioning, competitive analysis and go-to market strategy to guide creative digital marketing and PR campaigns.
- Created all User experience artifacts including user flows, user story mapping and wireframes for managing the product features and roadmap.

Deloitte US India Technology Consulting

Bangalore, India

Project: State Govt. Health and Human Services, USA

Senior Consultant

07/2015 - 01/2016

- Led end-to-end product development activities for initial release of BI Reporting and data warehouse pertaining to HHS's core business as well as new revenue streams.
- Collaborated and aligned with technical and non-technical stakeholders to translate customer needs into technical product requirements.
- Held end-to-end ownership conceptualizing product flow/features, writing feature specs, wire-framing UI design, prioritizing work items with engineering team, helping team develop use cases, and product releases.

IBM India Inc.

Bangalore, India

Project: Bharti Airtel, India

Senior System Analyst

05/2012 – 07/2015

- Managed the product features and roadmap of IBM's Infosphere Stream as per the Telecom Industry in India.
- Responsible for marketing the Streams Product in other telecom accounts of IBM across the globe.
- Led and implemented inter operator billing product which generated \$3M revenue monthly.
- Coordinated with stakeholders (including CIO) across multiple Line of Business at Onsite to manage BI product features and to develop product prototype and roadmap.
- Directed a 7-member team from across India for development of Enterprise Management Information; first initiative to involve centralized and standardized reports in Data Warehouse.

Business Analyst & Technical Leader

11/2009 – 04/2012

- Led the migration of Business Intelligence Platform for newly acquired telecom company, leading to increase in marketing performance by 20%.
- Launched IBM Infosphere Stream (Big Data) Product in India in partnership with the Watson Research Lab, US for the use in Telecom Industry for the first time; reduced ETL processing time by 60%.
- Managed the development of all KPIs within budget and time. Consistently achieved 95% plus on-time delivery.
- Designed and launched a first of its kind near real time campaign system for the telecom industry, which increased sales by 10% and reduced processing time by 60%.

Associate System Engineer

07/2006 – 10/2009

- Member of project that replaced an expensive third party tool Teradata with IBM's in-house ETL Tool and Database; generated \$5M in revenue for IBM.
- Contributions to the project have been highlighted twice in GBS GD Newsletter published quarterly.

SKILLS AND ABILITIES

Product Management | Business Intelligence | Data Warehousing | Big Data | ETL Tools | Reporting

- Product Tools: Balsamiq, UXPin, Optimizely
- ETL Tools: IBM Datastage 9.1, Infosphere Streams (Big Data Tool)
- Primary Skill Set: HTML, JavaScript, Unix, C++, SQL, awk & sed utility, Shell & Perl Scripting
- Databases: DB2 9.1, Oracle 10g
- Data Analysis Tools: Google Analytics, SAS JMP Pro 13, R Studio, AQT (Advanced query tool), Squirrel, Tableau
- Version Control: GitHub, Jira, Rational Clear Case, Rational Clear Quest, Star Team

PATENT AND AWARDS

- Received patent on 'Best Match Technique' inspired from challenge of processing enormous data in minimum time.
- Recognized as one of the future potential Women Leaders and nominated for 1 year elevate leadership program.
- Earned 'Manager's Choice' award for gaining swift comprehension and acumen at ETL technology.
- Received Orion Award for demonstrating IBM values and exhibiting high value addition to client's business.
- Awarded "Bravo Award" for excellence in technical field.

AMARDEEP SIDHU

<https://www.linkedin.com/in/ad7pm2>

EDUCATION

Massachusetts Institute of Technology <i>School of Engineering & Sloan School of Management</i> M.S., System Design and Management	Cambridge, MA Fall 2016 - Current
Purdue University <i>School of Engineering</i> M. S., Mechanical Engineering (Mechatronics)	Indianapolis, IN July 2011 – Dec 2013
Pune University Post Graduate Certification CAD CAM & CAE	Pune, INDIA Oct 2008– July 2009
Pune University <i>AISSMS College of Engineering</i> B. S., Mechanical Engineering	Pune, INDIA July 2004– July 2007

RELEVANTSKILLS

Software: SolidWorks, Simulink, LabVIEW, Python, ANSYS, PTC Creo, SysML, Vensim, JMP Pro

Courses: Project Management, System Architecture, Systems Engineering, Data Mining, Product Design and Development

EXPERIENCE

APTIMA INC. <i>Capability Management Extern</i> <ul style="list-style-type: none">• Gained gain better understanding of project management, business development, research, and division leadership• Leveraged data mining to analyze and provide feedback on real world multi-class classification opportunity	Woburn, MA Jan 2017-Jan 2017
SERVO TECH INC. ON-SITE AT CATERPILLAR INC. <i>Test Engineer</i> <ul style="list-style-type: none">• Supported system level machine software testing with focus on powertrain, implements, engine, display, and telematics subsystems• Developed plant and I/O models to support real time testing of Electronic Control Modules (ECMs)• Designed, developed, and maintained machine software test procedures for existing and future requirements• Developed expertise in vehicle communication system – Controller Area Network (CAN) - J1939 data transfer protocols and Caterpillar proprietary Cat Data Link	Peoria, IL Dec 2013-July 2016
SORTIMAT TECHNOLOGIES INDIA LTD. <i>Assembly Engineer</i> <ul style="list-style-type: none">• Led a team of 9 for engineering, assembly and installation of industrial automation machinery• Conducted feasibility analysis of machinery specifications and assisted sales team in setting client expectations• Leveraged and enhanced industry standard German designs for developing assembly line feeding solutions, oversaw manufacturing of individual parts, assembled, installed and troubleshot machinery• Delivered high quality solutions for over 7 major machine orders along with multiple minor products to the diverse clients in FMCG, automotive, and medical industry	Pune, INDIA July 2010 – June 2011
REL-METH ENGINEERS & CONSULTANTS <i>Design Engineer</i> <ul style="list-style-type: none">• Designing, component sizing and assembly of industrial automation machinery based on customer requirements• Sourced standard parts and raw materials to ensure cost effective design, manufacturing, and assembly• Leveraged in house expertise to design and support custom linkages and actuators• Supported 4 tailor made machines from design to installation and operator training for a major international consumer product manufacturer	Pune, INDIA Aug 2009 – June 2010
CADBURY INDIA LTD <i>Trainee Engineer - Plant Maintenance</i> <ul style="list-style-type: none">• Scheduled preventive maintenance and promptly addressed and resolved machine breakdowns• Implemented safety measures including machine guards, lock and tag to enforce accident prevention• Applied lean methodology for eliminating resource wastage and continuous improvement in the factory• Participated in major production enhancement initiatives by setting up cutting edge machinery in the factory	Pune, INDIA Aug 2007 – Sep 2008

PUBLICATIONS

-
- 5 first author, 1 poster

ASHLEY WHITNEY

ashwhit@mit.edu

EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
9/2015 – 6/2017 (anticipated)

University of Illinois
School of Engineering
B.S., Mechanical Engineering (with honors)

Urbana-Champaign, IL
9/2004-5/2009

EXPERIENCE

Cambridge Consultants

Boston, MA

Cambridge Consultants is a global product development and technology consultancy providing outsourced research and development services to start-ups and blue-chip companies.

Principal Mechanical Engineer – Medical Technologies

1/2016 – 9/2016

- Led technical design efforts in development of a portable, reliable, low-cost laparoscopic surgical platform prototype targeted to address unique needs of surgery in emerging markets.
- Managed program to explore feasibility of integrating energy harvesting technology into a drug delivery device for dose compliance tracking.
- Actively contributed to helping build the company's drug delivery service offering in the US office through recruitment, employee mentoring, and demonstrated thought leadership.
- Designed and implemented design verification training curriculum within organization.

Senior Mechanical Engineer – Medical Technologies

1/2012 – 1/2016

- Managed program to support first combination product launch for pharmaceutical company.
- Led mechanical engineering efforts on a multi-disciplinary team redesigning a complex fluidic management system used in surgical procedures from concept generation to product launch.
- Led mechanical engineering efforts on a multi-disciplinary team to design a home healthcare monitor device currently on the market in the US.

Baxter Healthcare

Round Lake, IL

Baxter Healthcare is a globally diversified healthcare company providing products and expertise in medical devices, pharmaceuticals, and biotechnologies that save and sustain lives.

Senior Mechanical Engineer – Electromechanical Devices

7/2011-1/2012

- Created a simulation model to quantify the effects of critical environmental and usage factors on infusion pump flow rate accuracy. Earned DFSS green belt certification in conjunction with project.
- Supported requirement generation and concept generation activities for a next generation infusion pump.

Mechanical Engineer - Engineering Development Program

7/2009-7/2011

- Developed and evaluated multiple iterations of prototypes for anesthetic container closure project.
- Led product verification efforts including test planning and management of test team for multiple products.
- Managed implementation of infusion pump rework related to remediation efforts, including component redesign, procedure creation, personnel training, and troubleshooting.

Ethicon Endo-Surgery

Cincinnati, OH

Ethicon Endo-Surgery is a Johnson & Johnson family company that develops medical devices for minimally invasive and open surgical procedures.

Research & Development Co-op

8/2006-6/2008

- Managed concept development and selection process for key component of medical device prototype.
- Performed tolerance stack-up analysis on multiple surgical device components.
- Performed finite element analysis to optimize design of vibration simulation test fixture.

OTHER QUALIFICATIONS

Medical device regulations (ISO 13485), design controls, requirement management, risk management, system architecture, system design, program management, program design, design for six sigma, mechanical design, CAD modeling (Solidworks), design for manufacture and assembly, tolerance analysis, statistical analysis (Minitab), test design, product verification, root cause analysis.

Xiaoliang (Jack) Yao

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Burlington MA, 01803

5089040998

JACKYAO@MIT.EDU

EDUCATION

Massachusetts Institute of Technology

School of Engineering & Sloan School of Management

M.S., Engineering and Management

- 4.53/5.00 GPA

Cambridge, MA

May, 2017

Columbia University

Fu Foundation School of Engineering and Applied Sciences

M.S., Operations Research

- 3.63/4.00 GPA

New York, NY

May, 2013

University of Massachusetts Amherst

B.S., Industrial Engineering 3.5/4.00 GPA

B.S., Applied Mathematics 3.9/4.00 GPA

B.B.A., Operations Management 3.9/4.00 GPA

B.A., Economics 3.8/4.00 GPA

B.A., Chinese Language and Linguistics 3.2/4.00 GPA

- Cumulative 3.68/4.00 GPA

Amherst, MA

May, 2011

EXPERIENCE

Amazon.com

Pathways Operations Internship

- Reduced labor cost by \$150k annually by leveling loading daily inbound volume
- Increased inbound productivity by 40% by designing and implementing new inbound process
- Decreased inventory shrinkage due to expiration by 4.3% by introducing new promotion strategy

Seattle, WA

May 2016 – August 2016

General Electric Aviation

Business Leader

- Drove cost out from 1.2 MM to 5.4MM in 2014
- Eliminated customer impact by decreasing work stoppages from 34 in 2013 to 0 YTD
- Decreased average inventory balance from 4.7MM/Wk to 3.2 MM/Wk by implementing lean manufacturing methods.

Lynn, MA

January 2015 – December 2015

General Electric Aviation

1st Shift Production Supervisor

- Decreased aged WIP from \$1.7MM to under \$1MM
- Decreased backlog from over \$2.2MM to under \$1.5MM
- Increased shop productivity from 3% to over 8%.

Lynn, MA

July – December 2014

General Electric Aviation

Operations Management Leadership Program Associate

- 4th Assignment – FINS/Frames Production Supervisor
 - Decreased backlog from \$1.1MM to \$0
 - Decreased overtime labor by 20% from 25% to 20%
 - Decreased aged WIP from \$900K to under \$500K
- 3rd Assignment – Shipping Dock Supervisor
 - Increased On Time Delivery of all shipments from 76% to 92%
 - Decreased overtime labor and decreased foam use by 50% through new package design
- 2nd Assignment – Manufacturing Quality Engineer
 - Reduced open non-conformances by 60% through process changes
 - Increased Florissant Penetrant Inspection yield from 7% to 92% by leading weekly teaming sessions
 - Decreased instances of physical damage to hardware from 10% to 0%
- 1st Assignment – Lean Manufacturing Engineer
 - Increased the output of the Process Village Cell by over 100% by implementing lean process changes
 - Supported lean manufacturing by designing equipment and facilities layouts that induce part flow
 - Reduced the cycle time of process village by 25% from over 12 min to under the TAKT time of 10 min

Class of 2013

Cincinnati, OH

Lynn, MA

Lynn, MA

Rutland, MA

Languages

Spoken and Written Mandarin Chinese

Chen Ye
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EDUCATION

Massachusetts Institute of Technology
School of Engineering & Sloan School of Management
M.S., System Design and Management

Cambridge, MA
Aug 2016 - June 2018

Harbin University of Science and Technology
B.E., Measurement-Control Technology and Instrumentation

Harbin, China
Sept 2003 - July 2007

EXPERIENCE

China ENFI Engineering Corporation (ENFI)

Beijing, China

The leading engineering firm in China's nonferrous metal and mining industry; subsidiary of China Metallurgical Group Corp., a Fortune Global 500 company merging into China Minmetals Corp.

Head of African Marketing Department, International Business Division

Jan - Aug 2016

- Started a subsidiary at Lubumbashi, D.R. Congo as an intrapreneur in the company
- Managed market development, project tracking, and bidding for projects in Africa; won project bids of \$5 million
- Promoted rapidly from an engineering position to the head of a distinct department
- Obtained certification as a senior engineer

Engineer, Automation Department, Electrical & Automation Division

Dec 2011 - Jan 2016

- Innovated almost 30 industrial automation techniques and obtained **24 national patents**; established the standard of control system in copper smelting
- Managed and coordinated solution design, development, implementation, data analytics and product delivery of plant automation projects, frequently served in the field, and acquired extensive client service management skills
- Provided engineering consulting service: requirement analysis, feasibility & risk study, preliminary plan and optimum solution of plant automation in China and Africa, and helped clients maximize efficiency and profit
- Led the Distributed Control System (DCS) design of the acid plant in Husab Uranium Mine in Namibia – the 4th largest uranium mine in the world, which is expected to reshape the supply pattern of nuclear material in the world
- Managed DCS implementation projects in China and Zambia simultaneously
- Headed a team of 20 design experts of various fields to serve in the field, and handled internal and external relationships in Yunnan Tin Copper Branch - the company's largest EPC project with investment of \$300+ million
- Awarded the company's highest individual prize in 2012, top 1%
- Rated as the company's Top 10 Field Engineer in 2012

Assistant Engineer, Automation Department, Design & Management Division

July 2007 - Nov 2011

- Initiated the automation of the CCS plant in Zambia - China's largest overseas investment in a copper smelter (over \$300 million), creating 1000+ jobs and reshaping the supply pattern of copper in Africa
- Accomplished the leading smelt furnace control system (first achieved by Chinese), which broke the technology monopoly and price-fixing of an Australian company and save \$2+ million in costs
- Transformed the technical result into the product, guided a team to achieve better application effect, and promoted adoption of innovative solutions in the Kunpeng Copper Smelter in Sichuan, after the 2008 Wenchuan Earthquake
- Awarded the 1st Prize of Science and Technology Award in 2010 and the 1st Prize of Engineering Design Award by China Nonferrous Metallurgical Industry Association in 2009

ADDITIONAL

- Published papers (indexed by EI) in journals of manufacturing, such as *International Journal of Manufacturing Tech and Mgmt*; reviewed papers for conferences on system and control, such as *American Control Conference*
- Organized donation of food and clothes to Zambian employees in the CCS plant, trained them in engineering; improved the friendship between Zambian residents and Chinese employees
- Enthusiastic about astronomy for 19 years; built the College Amateur Astronomer Club as the 1st President; organized events: outdoor observation, planetarium visits, tutoring school children in astronomy as volunteers, etc; granted Distinguished Amateur Astronomer Award by Harbin Amateur Astronomer Society in 2006
- Led the China Red Arrows Rescue; took training: running, climbing, and diving; fulfilled emergency rescue tasks
- Took leadership role in the Haiyan English Salon; volunteered to be an English tutor in the Do-See Language Camp
- Lived in Africa for over a year, and backpacked in 17 countries in Europe, Africa, Asia and North America

ERDEM YILMAZ
eyilmaz@mit.edu
Newton, MA

EDUCATION

Massachusetts Institute of Technology

School of Engineering & Sloan School of Management

Master of Science in Engineering and Management

- Focus on technology strategy, artificial intelligence and data mining systems
- Cross registered to Harvard Business School to take classes on digital transformation and technology strategy

Cambridge, MA
Expected Graduation June 2017

University of Massachusetts, Dartmouth

Master of Science in Electrical and Computer Engineering

- Thesis on wireless system design
- Awarded fully scholarship

Dartmouth, MA
2007

Technical University of Yildiz

Bachelor of Science in Electronics and Communication Engineering

- Thesis on numerical analysis

Istanbul, Turkey
2005

EXPERIENCE

Cheryish Technology LLC, Cambridge

Co-founder

Cheryish provides technology consulting on AI powered unified communication services along with a portfolio of software products to improve customer engagement for enterprises. My focus is product and technology strategy.

Cambridge, MA
November 2016-Present

Massachusetts Institute of Technology, Sloan School of Business

Graduate Fellow / Research Assistant

Areas of interest are entrepreneurship, technology strategy and innovation management.

Research assistant to Prof. James Utterback (Sloan) – Prof. Calie Pistorious (University of Hull, UK)

Cambridge, MA
September 2015-Present

Evolv Technology, Waltham, MA

A high-tech startup that raised \$19M to date, developing AI systems for public safety

Lead Engineer / (Consultant since 9/2016)

- Technical lead for new products, reporting to CTO and CEO. Wide range of responsibilities to develop products from idea phase to prototype and product phase.
- Managed contract engineers, technicians and designers in person or via crowdsourcing. Recruited undergrad engineering students from MIT for internships

Waltham, MA

2014-September 2016

Smiths Interconnect, Hudson, MA

An aerospace vendor providing embedded computer equipment

Lead Engineer

Senior Engineer

- Interact with existing / new customers, understand their needs, create specifications, and utilize cross-function teams to deliver products that exceed the requirements. Work with Smiths Interconnect offices in Italy, UK, Germany and USA to deliver products on time.
- Technical lead of development of new value added product portfolio (KVPX, SATA for aerospace) with sales over \$5M for first year

Hudson, MA

2013-2014

2011-2013

Orbital Sciences (now Orbital ATK), Dulles, VA

Medium size communication satellite and launch vehicle vendor

Sub-system Lead Engineer and Cost Account Manager

Senior Engineer

Engineer

- Responsible of performance, budget and schedule of a communication sub-system. Lead a team of four engineers to successfully deliver the sub-system on time managing \$1.2M subsystem budget

Dulles, VA

2010-2011

2009-2010

2007-2009

PROFESSIONAL INTEREST

Unified communication, digital transformation, business applications of artificial intelligence and data mining to improve services, technology consulting, technology research.