

Address Information
Address Information

Student Name

Phone Number
Email Address

EDUCATION

Duke University, Durham, NC

Jul 2010 – Dec 2015 (Expected)

- M.Eng. in Computer Engineering, Jan 2014 – Dec 2015 (expected). GPA: 3.47 / 4.00
- B.S.E. in Biomedical Engineering, Jul 2010 – May 2013

EMPLOYMENT

Google: New York, NY—Software Engineering Intern

May 2015 – Aug 2015

- Shipped Cloud Bigtable and Apache Spark integration, in allowing users to read/write to Cloud Bigtable in both standalone (distributed) and streaming mode
- Integrated Spark Streaming with Cloud Pubsub by extending InputDStream class
- Contributed to Big Data OSS Team's bdutil product to configure Spark with Cloud Bigtable (<https://github.com/GoogleCloudPlatform/bdutil>)
- Created examples of Spark and Cloud Bigtable, Spark and Cloud Pubsub, and Cloud Dataflow and Cloud Pubsub integrations (<https://github.com/GoogleCloudPlatform/cloud-bigtable-examples>)
- Created integration test on Jenkins to continue build and test Spark and Cloud Bigtable integration

FlowGhost, Duke Based Education App Startup: Durham, NC – Technical Lead

May 2014 – May 2015

- Recruit, train, and lead development team of 2 undergraduate and 1 graduate students, in completing a prototype
- First time performed full stack development using Ruby on Rails with HTML/CSS, Javascript, and MySQL
- Integrate incomplete backend features implemented by previous team with frontend Javascript to display flowchart
- Collaborate with members to complete the value proposition for submission to startup challenges

Philips Research at Johns Hopkins Hospital: Baltimore, MD – Clinical Research Intern

May 2013 – Aug 2013

- Designed CT data processing programs in Matlab that reduced the processing time from 20 minutes to 2 minutes
- Co-wrote 2 journal articles with an international scholar on clinical evaluation of an automatic bone removal program which were submitted to the Journal of Vascular and Interventional Radiology

PROJECTS

ShareFile, Duke Univ. (<https://github.com/taragu/sharefile>)

Nov 2014 – Dec 2014

- In team of 3, designed and built networking program using C++ and SQLite where users could store and share files
- First time using Qt Creator and Qt's GUI library to create user interface that allowed users to upload/download/share files, and add/remove/message their friends

RISC, Software Maintainability Course, Duke Univ. (<https://github.com/kjian279/RISC>)

Jan 2014 – May 2014

- In team of 3, designed and built multiplayer online turn-based strategy game
- First time developed front-end; learned and utilized Google Web Toolkit to write frontend code in Java and xml
- Implemented front-end and client request/response classes to handle communication between client and server

OOGASalad, Duke Univ. (<https://github.com/taragu/duke-compsci/tree/master/oogasalad>)

Mar 2014 – May 2014

- In group of 10, designed and built RPG game engine in Java to allow non-programmers to make RPG games
- Drove adoption of Composition Over Inheritance for game engine design and development
- Assigned tasks and managed efforts of individuals to ensure progress
- Negotiated with game authoring environment sub-team as lead of game engine and game player sub-teams to ensure same principles were applied and cleanliness of design

SKILLS

Programming Languages: C/C++ (proficient), Java (familiar), Scala (familiar), Ruby on Rails (familiar), Matlab (familiar)

Technologies: Unix/Linux, GDB, Git, Emacs, HBase, Spark, Cloud Pubsub, Eclipse, Qt Creator

AWARDS

Pearl Hacks: First Place Overall, Major League Hacking

Apr 2015

INTERESTS

Running, reading, and yoga

Vidya Mani

vidyamani@duke.edu | (919) 666-6666 | <https://www.linkedin.com/in/vidyamani>

EDUCATION

Duke University, Durham, NC Dec 2015
Master of Engineering Management GPA: 3.55
Relevant Coursework: Database Management, Decision Models, Operations Management, Product Management, Business Strategies for Sustainability, Machine Learning, Project Management, Marketing, Accounting & Finance

Techno India, West Bengal University of Technology, Calcutta, India Jun 2011
Bachelor of Technology in Electrical Engineering GPA: 4.0

WORK EXPERIENCE

Technical Support Analyst – Intern, ESRI, Charlotte, NC May 2015 - Aug 2015

- Developed internal web-app titled 'Housing Affordability in US,' using ArcGIS WebAppBuilder for front-end user interface and SQL Server for back-end database management system (DBMS)
- Designed features to discover affordable housing areas within a city, based on user's salary input
- Enhanced app by adding features to show nearby business points, based on user's preferred drive time
- Implemented unique feature enabling user to explore lifestyles of people in any block group based on ESRI's Tapestry Segmentation
- Resolved issues related to Enterprise Geodatabase Management System in SQL Server and Oracle

Systems Engineer, TATA Consultancy Services, Bangalore, India Dec 2011 - Jun 2014
Client: Product Complaint Department of Advanced Sterilization Product, Johnson & Johnson, Irvine, CA, US

- Analyzed and reviewed U.S. and international complaints (per FDA regulations) on product malfunction to understand reasons behind failures using SIEBEL, an Oracle based CRM tool
- Resolved several non-conformances, corrective, and preventive actions to recommend process improvement
- Created test cases and test plans for parts that failed within warranty period to improve product quality
- Updated clients with ongoing processes and held virtual meetings as part of customer service team

Assistant System Engineer, TATA Consultancy Services, Hyderabad, India Jan 2012 - Apr 2012

- Collaborated with team of 5 to design and develop innovative ticket management website that handled customer complaints for local telecom company, utilizing .NET 4.0 for front-end interface and SQL Server for back-end

Software Engineer - Intern, MECON, Ranchi, India Jun 2009 - Aug 2009

- Designed and developed website for managing data and information of trainees/interns using Oracle 8i database for back-end and Visual Basic 6.0 for front-end interface

LEADERSHIP ACTIVITIES & ACHIEVEMENTS

Campus Ambassador, ESRI, Durham, NC Aug 2015 - Present

- Represent ESRI at career events and info sessions on campus to spread awareness about company
- Advertise on social media to increase company's presence at Duke University

Teaching Assistant, Pratt School of Engineering, Duke University, Durham, NC Jan 2015 - Apr 2015

- Monitored class participation and graded assignments for course 'Innovation & Entrepreneurship: Basics of Commercializing Technology'

Academic Tutor, Athletics' Academic Club, Duke University, Durham, NC Jan 2015 - Apr 2015

- Tutor student athletes in the areas of Computer Science and Engineering Physics

Board Member, Students Activities Committee, Duke University, Durham, NC Sep 2014 - Apr 2015

- Organized activities to facilitate networking among students and provide means to build community

Volunteer, Greenpeace, Bangalore, India Jan 2014 - May 2014

- Volunteered for Environment Education events educating school children on environment sustainability

Executive Member, Organizing Committee 'Edge,' Techno India, Calcutta, India Jan 2008 - Apr 2009

- Collaborated with team of 25 and managed budget of \$15,000 to attract sponsors for tech-fest

Team Lead, Robotics Club, Techno India, Calcutta, India Jan 2008 - Jul 2010

- Led team of 4 in robotics competitions and won state/national level contests

COMPUTER SKILLS

- Oracle, SQL Server, Tableau, R, Advanced Microsoft Excel, Decision Trees, Monte Carlo Simulation, Crystal Ball, Solver, Python, Java Script, HTML, C, C++, .NET, Visual Basic, ESRI ArcGIS, ESRI Business Analyst, Salesforce.com, Octave/MATLAB

Student Name

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LinkedIn Profile Link

Student Phone Number
Student Email

EDUCATION

Duke University

Durham, NC
December 2016

- Master of Engineering (MEng) in Mechanical Engineering, GPA: 3.766
- Concentration in Thermal Fluids

Johns Hopkins University

Baltimore, MD
May 2015

- Bachelor of Science in Mechanical Engineering (BSME), GPA: 3.46
- *Honors*: Dean's List, National Society of Collegiate Scholars

Relevant Coursework

- Thermodynamics, Convection, Heat Transfer, Fluids, Aerodynamics, Acoustics, Vibrations, Controls, Electronics, Statics
Solid Mechanics, Machine Design, FEM, Mechanics of Materials, Manufacturing, Materials Selection, Systems Engineering

CERTIFICATIONS AND TECHNICAL SKILLS

Certifications: Engineer in Training (EIT)

Machine Shop: Drill Press, Mill, 3D Printer, Bandsaw, Laser Cutter, Lathe, Belt Sander, Hand Tools

Computer-Aided Design (CAD): PTC Creo (Pro/ENGINEER), SolidWorks, ANSYS DesignModeler

Finite Element Analysis/Finite Element Method (FEA/FEM): ANSYS Mechanical, Creo Simulate

Programming and Software Development: MATLAB, Java, Python, LaTeX, R, Simulink, GitHub

Electronics: Soldering, PCB Artist, Oscilloscope, Function Generator, Current Probe, LCR Meter, Multimeter

ENGINEERING EXPERIENCE

CoolChip Technologies, Inc.

Somerville, MA
May 2015-August 2015

Test Engineering Intern

- Evaluated the performance of electronic cooling devices by performing thermal, acoustic, and airflow tests
- Wrote a MATLAB program that recorded and processed data for acoustic testing by interfacing with a data logger
- Designed circuit boards needed to power DC motors using PCB Artist software
- Populated and tested circuit boards by using soldering and a multimeter
- Built adapters to connect the cooling devices to DC motors using 3D printing and SolidWorks CAD

Honda R&D Americas, Inc.

Baltimore, MD
August 2014-May 2015

Senior Design Project Team Member

- Collaborated with 3 other students to build a device that measures the convective heat transfer coefficient of car radiators
- Completed 3D CAD models and drawings of parts using PTC Creo Elements to draft ideas for designs
- Constructed bi-weekly prototypes using machine shop tools including a band saw and drill press to test our design ideas
- Used MATLAB to process temperature and flow rate data and to calculate the convective heat transfer coefficient

Giner, Inc.

Newton, MA
May 2014-August 2014

R&D Engineering Intern

- Constructed 3 prototypes that will be used to preserve donated organs by providing them with oxygen
- Machined holes and slots needed to mount the inner components to the prototypes' outer cases
- Completed the prototypes' circuit boards by reading schematics and soldering circuit elements to the boards

Johns Hopkins University Department of Materials Science and Engineering

Baltimore, MD
July 2012-May 2014

Research Assistant

- Measured the permeability and heat transfer coefficient of copper fins and woven structures in water
- Plotted graphs in Excel to identify the correlation between sample variables and permeability trends
- Developed techniques to improve the samples' heat transfer coefficient while incurring only small changes in permeability

LEADERSHIP EXPERIENCE

Duke MEngagement Committee

Durham, NC
September 2015-Present

Career Services Chair

- Lead a committee that enhances career services for the Master of Engineering program
- Coordinate with other executive members to plan program-wide events
- Interview faculty members and alumni to learn more about career paths
- Write blog posts about career-related topics for the Pratt Professional Masters blog

JHU American Society of Mechanical Engineers (ASME) Chapter

Baltimore, MD
January 2012-May 2015

Secretary

- Organized chapter meetings and events by communicating with other executive members
- Managed chapter's social media presence and email communication to the department and the student body
- Promoted the chapter to freshmen which helped the chapter grow from 20 members to over 100 members

Yuqi Lang

919-555-5555 • yl@duke.edu

BIOMEDICAL ENGINEERING EDUCATION

DUKE UNIVERSITY, DURHAM, NC

Master of Engineering in Biomedical Engineering

12/2015

GPA: 3.6

NORTH CAROLINA REGULATORY AFFAIRS FORUM, DURHAM, NC

Regulatory Affairs Certificate (RAC) US Program

06/2014 - 10/2014

UNIVERSITY OF ROCHESTER, ROCHESTER, NY

Bachelor of Science in Biomedical Engineering

05/2014

GPA: 3.7

Minor: Chemical Engineering

First Place Award in Charles and Janet Forbes Entrepreneurial Competition 2014 – Senior Capstone Project

RELEVANT EXPERIENCE

CAMRAS VISION

DURHAM, NC

Commercialization Internship

8/2015 – 12/2015

- Conducted primary and secondary market and consumer research for glaucoma shunt in mature and emerging markets
- Analyzed impacts of international healthcare systems, local regulatory, market access environments, and cultural nuances

MEDTRONIC

JACKSONVILLE, FL

MS Level Regulatory Affairs Internship, Surgical Technology

5/2015 – 8/2015

- Incorporated regulatory guidance and pre-submission feedback to prepare 510(k) for Nasal Valve Stent and submitted to FDA
- Assessed ~3,000 devices currently designated as Class I to identify gap and ensure regulatory activities; compared device against product code to justify substantial equivalence and documented in 25 Letter to Files and Memo to create regulatory rationales
- Evaluated product changes (manufacturing, design) for regulatory implications and proposed regulatory strategies for approval

DUKE TRANSLATIONAL MEDICINE INSTITUTE (DTMI)

DURHAM, NC

Regulatory Affairs Internship

10/2014 – 03/2015

- Compiled sample IDE application for modified technique of PMA approved device in treating patients with morbid obesity
- Shadowed Regulatory Team for 510(k) pre-submission meeting with FDA for novel hemodialysis arteriovenous graft device
- Compiled sample IND application for Temsirolimus therapy in men with castration resistant metastatic prostate cancer
- Gained knowledge of IRB review process through review meetings of new clinical protocols and amendments of INDs and IDEs

ABB ENGINEERING

SHANGHAI, CHINA

Project Management Internship, Robotics Division

07/2012 - 08/2012

- Interacted with diverse array of engineers and acted as liaison among clients and colleagues to organize meetings and logistics
- Documented checklists, client memos and meeting reports to establish project milestones and minimize project risks
- Managed, monitored and summarized three project progress reports to promote efficient communication

ELI LILLY AND COMPANY

SHANGHAI, CHINA

Summer Internship, Diabetes R&D Center

05/2012 - 07/2012

- Organized over 200 commercial and government contracts in compliance with legal requirements
- Developed and implemented internal database to establish efficient communication and resource sharing platform

MEDICAL DEVICE DEVELOPMENT PROJECTS

Biomedical Device Innovation Project, Duke University

08/2014 – 12/2014

- Collaborated with two surgeons and four engineers in designing tool for sizing annulus of regurgitative mitral valve repair
- Conducted prior art and market research; drove project from initial concept to prototype; prepared provisional patent application

IVD Device Design Project, University of Rochester

10/2013 - 05/2014

- Collaborated with 2 dermatologists in developing cost-effective IVD device to test barrier integrity of *ex vivo* epidermis sample
- Conducted prior art and market research; designed functional prototypes and developed an award-winning business plan

RESEARCH EXPERIENCE

DERMATOLOGY DEPARTMENT, MEDICAL CENTER, UNIVERSITY OF ROCHESTER

ROCHESTER, NY

Undergraduate Researcher at DeLouise Laboratory / Xerox Engineering Research Fellow

09/2011 - 07/2014

- Designed experiments, prepared SOP and executed research plan to develop high throughput cell sorting process to aid in early prognostic markers for skin cancer diagnosis; collected data on six different biomarkers using microbubble array technology
- Co-authored research paper: "Quantitative analysis of spherical microbubble cavity array formation in thermally cured polydimethylsiloxane for use in cell sorting applications," *Biomedical Microdevices* 2013
- Selected for Poster Presentation at Annual Biomedical Engineering Society 2013 Meeting, Seattle, WA

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Key Qualities

- Computer savvy; significant experience with Microsoft Office software, C/C++ Programming using Emacs and Visual Studio; intermediate knowledge of Java and Python, as well as basic VHDL, and Embedded Processors
- Comfortable with many Big Data solutions including MongoDB, SQL, NewSQL, and Graphs

Experience

Progress Software in Morrisville, North Carolina

Sales Engineer Intern/Co-Op

April 2015 - Present

- Created custom connectivity solutions for On-premise and Cloud based data sources using C++ and Java
- Analyzed customer requirements and data sources to create high-performance data pipelines
- Provided customer facing problem solving and demos
- Wrote both technical and non-technical blogs to help drive traffic towards products
- Grew a healthy social presence including constant content on both Twitter and LinkedIn
- Created standards and development models to minimize turn-around for customer Proof of Concepts

Cummins Inc. in Columbus, Indiana

Software Controls Engineer

July 2013 – August 2014

- Involved with customer feature requirement gathering leading to reduced product development cycle
- Led development on two innovative software component solutions resulting in increased product safety and reduced run-time costs
- Improve software development processes using interlinked components
- Developed efficient software using Simulink, MatLab, and C code
- Developed application independent simulation models via 6 Sigma allowing reduced test cycles
- Utilized 6Sigma to improve software development cycle improving turn-around time while increasing product safety

Off-Highway Controls and Calibrations Engineer

January 2012 – July 2013

- Interfaced with Application Engineers and/or directly with the customers for problem solving
- Conducted technical presentations on many technical investigation
- Traveled to customer sites for problem solving as well as for software updates
- Trained to conduct Behavior Interviews for Technical and non-technical positions used in recruiting process
- Coached new hires with both technical and non-technical processes

Education

Duke University; Durham, North Carolina

Master of Engineering in Computer Engineering

GPA: 3.3

Degree to be obtained December 2015

Relevant Courses:

1. Cloud Computing
2. Fault-tolerant Systems
3. Algorithms in C++

The University of Central Florida; Orlando, Florida

Bachelors of Science in Electrical Engineering

Cumulative GPA: 3.15

Organizations: IEEE UCF Chapter, EWB, Robotics Club

Involvement:

1. Treasurer and Philanthropy Chair, MEngagement Committee
2. Project Innovator, Duke Interdisciplinary Social Innovators (DISI)

Interests

Interests: Electronic Hobbyist (Arduino), Traveling, Running Marathons, Percussionist

Student with Experience

Phone Number and Email Information

EXPERIENCE (The Coca-Cola Company Mexico)

Product Commercialization Manager

Apr 2015 – Jul 2015

- Led development of new products for Mexico Division (12 different projects) including dairy, tea and carbonated beverages as Technical Product Owner.
- Successfully executed Common Innovation Framework per internal guidelines and requirements for all projects by delivering necessary information in a timely basis.
- Created and managed cross-functional teams to ensure project completion with inclusion of key stakeholders such as Research and Development, Marketing, Regulatory Approval and Finance.
- Identified trends and potential products to develop company's product pipeline resulting in 30+ projects for 2015-2017
- Updated projects' status in Microsoft Project as well as internal platforms and established communication routines.

Immediate Consumption Equipment Development Manager

Jul 2009 – Mar 2015

- Successfully drove company sustainability global program for equipment in Latin America (300k units per year/\$300 MM USD annual spend) through commercialization of HFC-free equipment (44k units placed and \$28 MM USD spend).
- Led cross-functional and multi-regional team to develop technological global solution to reduce carbon footprint impact by reducing energy efficiency up to 50%.
- Developed equipment expertise in certification and authorization processes, including knowledge of Latin America regulations (over 150 pieces of equipment certified over the 5 years).
- Influenced bottlers and suppliers to explore and commercialize 25 new competitive advantage technologies to drive revenue and consumer preference at the point of sales.
- Ensured 100% compliance of equipment suppliers through on-site audits and targeted programs.

Packaging Supplier Development Coordinator

Nov 2008 – Jun 2009

- Project manager of the authorization processes and quality assurance of key packages to support business plan strategies (volume growth and cost reduction). Nearly 240 bottles authorized.
- Managed transition of new ink technology for glass bottles. Determined and developed specifications, policies and guidelines for bottler compliance via quality manuals and reference guides.
- Ensured company package quality via more than 20 audits resulting in package quality of 88.7% as well as 100% compliance of suppliers with local regulations applicable and company packaging policies.
- Implemented and coordinated Picasso Packaging Database for Mexico to include design and performance data for entire package portfolio in Mexico.

Strategic Supplier and Fountain Operations Quality Auditor

Nov 2007 – Oct 2008

- Identified opportunities in strategic supplier performance through the execution of 75 on-site quality audits.
- Assessed beverage quality of the company's fountain business through market evaluations resulting in a 99% fountain quality index.

Technical Sharepoint Project Manager

Jun 2007 – Oct 2007

- Mapped processes and determined requirements for design and implementation of the information exchange platform for the Technical department in Mexico resulting in full adoption of the technology.

EDUCATION

Master of Engineering Management

Duke University – Durham, NC

Expected: May 2016

GPA: In progress

Industrial Engineering

Instituto Tecnológico Autónomo de México (ITAM) – Mexico

2002 -2008

LANGUAGES

Spanish - Native English – Fluent (speaking, reading and writing) Italian – Conversational