

E.N. GINEERING

3400 N. Charles Street, Baltimore, MD 21218 | 410-516-8056 | eng@yahoo.com

EDUCATION

Johns Hopkins University Baltimore, MD
Bachelor of Science, Mechanical Engineering (GPA 3.34) Expected May 2017

Concentration: Aerospace Engineering

Honors: Johns Hopkins Bloomberg Scholarship for academic success in mechanical engineering (2012)
Richard Schlotterbeck Memorial Scholarship in mechanical engineering (2010 – 2011)
Sigma Phi Epsilon Balanced Man Scholarship Finalist for academic leadership (2010)

Relevant Courses: Jet & Rocket Propulsion, Mechanics Based Design, Electronics & Instrumentation, Materials Selection, Statics & Mechanics of Materials, Space Vehicle Dynamics & Control

TECHNICAL SKILLS

Software: MATLAB, Creo Elements/Pro, CES Edupack, AutoCAD, LaTeX, SolidWorks, FEA

Foreign Languages: Spanish (Fluent), German (Intermediate)

MECHANICAL ENGINEERING PROJECTS

Johns Hopkins University, Department of Mechanical Engineering Baltimore, MD
Senior Engineering Design Project September 2016 – Present

- Develop new pre-distribution box and collection basin for improved water flow in cooling towers
- Write 50-page report containing initial design concepts, testing methods, graphs, and tables
- Produce CAD models of various design concepts included in critical design report with Creo Elements/Pro

Johns Hopkins University, Laboratory for Bio-Inspired Locomotion Baltimore, MD
Research Assistant October 2015 – April 2016

- Organized lab instruments and purchased tools, performed live testing on animals, and utilized software to test response of mosquito flight during exposure to variable sound frequencies

American Institute of Aeronautics and Astronautics Tucson, AZ
Design Build Fly Team January 2014 – January 2015

- Designed, constructed, and assembled fuselage of remote controlled airplane entered in Design Build Fly competition on team of 4 students

VOLUNTEER AND LEADERSHIP ACTIVITIES

JHU Society of Hispanic Professional Engineers Baltimore, MD
Co-Founder and Vice President September 2015 – Present

- Managed founding and incorporation of student chapter of professional society with partner including developing, constitution, bylaws, and funding mechanism
- Planned and organized chapter programming initiatives and recruitment of 8 members

MAPP (Mentoring Assistance Peer Program) Baltimore, MD
Underrepresented Freshmen Counselor and Mentor September 2015 – Present

- Counsel and mentor 2 freshmen on academic and personal development skills
- Implement academic, cultural, and service based enrichment programs

Phi Delta Theta Fraternity, JHU Chapter Baltimore, MD
Founding Member September 2015 – Present

POLLY MER

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EDUCATION

Johns Hopkins University Baltimore, MD
Masters of Science, Chemical & Biomolecular Engineering Expected May 2018
Bachelor of Science, Chemical and Biomolecular Engineering (GPA 3.34) Expected May 2017
Honors: Dean's List (Fall 2015, Spring 2016)
Relevant Courses: Eukaryotic Cell Biotechnology, Biochemistry, Cell Biology, Organic Chemistry, Process Analysis, Thermodynamics, Transport, Applied Physical Chemistry, Modeling & Statistics

TECHNICAL SKILLS

Software: MATLAB, Simulink, Advanced Excel/VBA Programming,
Foreign Languages: Spanish (Fluent), German (Intermediate)

INDUSTRY EXPERIENCE

Sheppard T. Powell Associates, LLC Baltimore, MD
Product Development Intern May – August 2016

- Developed a more streamlined system for performing hydraulic modeling calculations for HRSG chemical cleanings using Excel and VBA programming
- Independently created models for HRSG evaporators and economizers and wrote formal instructions for the user of the models and for client purposes

WorleyParsons, Ltd Georgetown, SC
Mechanical Engineering Intern October 2015 – April 2016

- Worked with process engineers to improve wastewater treatment for the Santee Cooper Cross Generating Station in anticipation for future EPA regulations
- Analyzed deviations from typical plant operation by finding average flows, summarizing weekly data, creating dynamic graphs, and linking data to master flow diagrams
- Manipulated raw flow and constituent data for leachate management of NRG Bangor Ash Disposal Site
- Completed Toxics Reduction Evaluation report for submittal to the state on behalf of the client
- Assembled quarterly report of leachate flow and characteristics for the client for internal purposes

LEADERSHIP AND COMMUNITY SERVICE

Johns Hopkins Housing, Residential Life & Dining Baltimore, MD
Advisory Board Member September 2014-Present

- Redesigned cafe into popular dining hall with meal plan options to better fit student lifestyle and an online-ordering system for decreased wait time
- Converting outdated housing selection process to efficient online system

Society of Women Engineers (SWE) Baltimore, MD
Member September 2013-Present

- Encourage girls and women to learn about engineering and pursue related careers
- Participate in discussion about understanding and combating gender-based discrimination in engineering with upcoming leaders

GRAD STUDENT

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EDUCATION

Johns Hopkins University, Baltimore, MD

Expected May 2018

MSE, Electrical & Computer Engineering, (GPA 3.9)

University of Mumbai, Mumbai, India

May 2016

BE, Computer Engineering, (GPA 9.1/10, GRE 1580/1600 Quant:800/800, Verbal:780/800)

ELECTRICAL & COMPUTER ENGINEERING PROJECT EXPERIENCE

Johns Hopkins University, Baltimore, MD

September 2016 – Present

- **Multithreaded (IM)Chat Server with Peer to Peer Application:** C, UNIX Socket Programming
- **Reliable Multicast over UDP:** Multicast engine, which uses Token ring protocol for reliable transfer of multicast messages between group of servers so all of them get messages in an agreed consistent order.
- **JAVA Communicator:** Developed an integrated JAVA application providing communication environment which allows user to hold conference and provide utilities such as white board, chat, presentations in PDF format.
- **Blue-Fi:** Devised and implemented a unique solution in C, enabling remote communication and management of Bluetooth enabled devices overcoming the short range limitation of Bluetooth.

University of Mumbai, Mumbai, India

September 2014 – May 2016

- **Vector Model for Information Retrieval:** A vector based Information Retrieval model in PERL for ranking documents on the basis of vector similarity between the two. Extended this project to find word sense disambiguation that occurs in different queries.
- **Image Search Engine:** Created a Vector model Based Search Engine in using Query Expansion and multiple queries input from User. A unique Search Engine that does not store image files but only their links. Created a web robot to crawl the internet to find these links. Technology used: PERL.
- **Mobile P2P networking:** Developed P2P file sharing and chat protocols for Nokia N800 tablet PC in C.
- **Boggle:** Developed a version of popular game Boggle in JAVA using MVC pattern and swing classes for GUI.

INDUSTRY EXPERIENCE

Google Inc., Mountain View, CA

May – August 2016

Engineering Intern

- Developing a large-scale framework using MapReduce for seed-based textual information extraction of class attributes from anonymized query logs. Contribution to the codebase was in the form of a checked-in component for computing pairwise similarities of search-signature vectors.
- Conducted preliminary research investigation in automatically extracting comparative statements between two entities from the entire web, and identified high-quality comparative statements via attributes extracted using seed-based framework.

TECHNICAL SKILLS

Languages: C/C++, Java, C#, Shell Scripting, Perl, JSP, PHP, NesC, Assembly, VHDL

Software Platforms: Windows Mobile SDK, ASP.NET, J2EE, Ruby on Rails, Hadoop, OpenMPI, Visual Studio 2008, Eclipse, Matlab, XAMP

Operating Systems: TinyOS, Windows CE, Maemo, MAC OSX, Linux, Windows

Network Protocols: TCP/IP, Ethernet, Wifi, GSM, Bluetooth, RF, Zigbee

Databases: Oracle, MySQL, SQL Server Compact

Hardware: MSP430, ATMega8L, AT89C51, 8085, FPGA programming

Foreign Languages: Fluent in Hindi and Gujarati