

SAHIL K. SHAH

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EDUCATION

Johns Hopkins University Baltimore, MD
Bachelor of Science: Computer Engineering Expected May 2020

- Relevant Coursework:
Intermediate Programming, Digital Systems Fundamentals, Computational Modeling for Electrical and Computer Engineering, Introduction to Electrical and Computer Engineering; Linear Algebra, Calculus III

Nashua High School South Nashua, NH
High School Diploma (GPA 4.08, Top 5%) June 2016
Advanced Placement Courses: Physics 1, Physics 2, Physics C: Mechanics, Calculus AB, Calculus BC, Computer Science, Chemistry, Statistics, English Lit. and Comp., Macroeconomics, Microeconomics

EXPERIENCE

MEDInstill Development LLC New Milford, CT
Automation Intern June 2017 – August 2017

- Worked with a small team to automate steps in the sterile filling process for medical pouches utilizing both hardware and software knowledge
- Researched and studied manuals to learn operation of a robot arm, including electrical wiring with relays and a robot-specific programming language to control movement
- Implemented a system that connected robot I/O signals, RFID antennae, a digital I/O device and a PC to automate the process of moving a robot arm on a filler line in and out to register RFID-tagged pouches
- Created a fully functional GUI interface in C# for both reading and writing RFID tags

Johns Hopkins University Baltimore, MD
Engineers Without Borders: Guatemala Project Team Member September 2016 – Present

- Work with a small team to help bring clean water to a small village in Guatemala using solar panels/pumps
- Calculate most efficient way to increase water distribution to WHO standards based on voltage output/limitations on panels and pump
- Research and apply for grants to help fund equipment, maintenance and travel to Guatemala

University of Massachusetts Lowell Lowell, MA
Research Assistant April 2015 – March 2016

- Collected data on minerals from Raman/fluorescence spectrometer at liquid nitrogen/room temperatures, as well as from x-ray spectrometer
- Analyzed spectra, identified elements in mineral composition and plotted data in Microsoft Excel
- Researched crystal structures and mineral properties to improve comprehension of collected data
- Improved MATLAB program to optimize calculations involving large prime numbers and format results

AdVision Mock Business Team Nashua, NH
Co-founder and Chief Financial Officer September 2012 – February 2014

- Co-founded AdVision team to formulate product idea and business plan for a targeted television banner advertising system for small and local businesses
- Worked on 5-member team to design technological aspects of the box and create marketing/sales plan
- Created detailed financial summary and projections through extensive research into market, operating expenses and product costs
- Awarded 3rd place and a \$1000 cash prize in TiE Young Entrepreneurs competition
- Awarded 1st place and a trip to the national competition at the DECA NH State competition
- Granted USPTO Patent No. 9451325 for system and method of transmitting targeted advertisements

TECHNICAL SKILLS

Computers: C, C++, C#, Java, Photoshop, MATLAB, Autodesk Inventor, Microsoft Word, Excel, PowerPoint
Languages: Spanish – Intermediate Proficiency