Frederick Brunn

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Education

Stony Brook University – Stony Brook, NY

B.S. in Computer Science at Stony Brook University
Expected Graduation: 2017

Longwood High School – Middle Island, NY

Regents Diploma with Advanced Designation
Mastery in Science
Graduation Year: 2013

Experience

Robotics Specialist Internship – June 2014 through August 2014
SonAER Ultrasonics – Farmingdale, NY

- *Developed electronics and modified firmware solution for use in an ultrasonic atomizer nozzle 3D printer*
- *Researched solutions through networking with professionals in the medical equipment field, including attendance at the MD&M East 2014 industry conference*

Projects

Project Manager – September 2014 through Present
IEEE Stony Brook Chapter – Stony Brook University, Stony Brook, NY

- *Managed IEEE-run projects through the running of weekly project hours and the foundation and administration of an official chapter Github account*
- *Projects include a tic-tac-toe touchscreen game and various Raspberry Pi-based services*
- *Participated in weekly executive board meetings, planning events to promote engineering and chapter projects, such as basic and advanced Arduino tutorials*

Lead Programmer – September 2010 through June 2013
FRC Team 564 Robotics – Longwood High School, Middle Island, NY

- *Supervised the writing of code used to control robots to play different games*
- *Implemented controls via Microsoft Kinect, SparkFun MaKey MaKey which allowed for unconventional, but user-friendly methods of control*
- *2011 Regional Finalists, attended the 2012 National Championship in St. Louis*

BNL Soil Experiment, Participant
Longwood High School, Middle Island, NY

- *In collaboration with Brookhaven National Laboratory, used beam time to analyze the chemical composition of soil from a diverse array of areas across Long Island*
- *Managed data and formed into graphs regarding composition*
- *Mapped out soil composition to locale using Google Earth and The GNU Image Manipulation Program software*

Skills

Languages

- *Java, C, HTML, CSS, XML, Python, C++*

Software

- *Git, GNU/Linux*