

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

Software Engineer Internship – May 2015 through August 2015
Bren-Tronics, Inc. – Commack, NY

- *Developed C# application that monitors ARM-enabled battery chargers via JSON over UDP and visualizes data in novel ways with OxyPlot library*
- *Developed C# application to test home energy system using SCPI*
- *Debugged UART communication to 3G cellular module using Atmel C*

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*

Extracurricular Experience

Project Manager – started September 2014, ongoing

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*

Skills

Languages

- *Java, C#, C, HTML, CSS, XML, PHP, Python, C++, JS*

Software

- *Git, GNU/Linux*