William Kommritz – Electrical Engineer
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Objective

Seeking an engineering co-op/internship from May 2017 to December 2017

Education

2014-Present — Rochester Institute of Technology, Rochester, NY
Electrical Engineering Technology BS Major, Chemistry Minor, GPA of 3.59/4.00

2011-2014 — Naugatuck Valley Community College, Waterbury, CT
Electronics Engineering Technology AS, GPA of 3.79/4.00

Employers

Aug 2017 - present — The Construct / Brinkman Research, RIT, Rochester, NY Student Lab Manager/Lead Programmer
- Assist students with tools and projects / Design and troubleshoot 3D printer controllers

Jan – Aug 2016 — D3 Engineering 1057 E. Henrietta Rd, Rochester, NY Hardware Engineering Intern
- Assist hardware team in designing, testing, and troubleshooting new products

May - Aug 2013 — Northeast Utilities (Yankee Gas), 47 Eagle St, Waterbury, CT Student Technician
- Review, repair, verify and update gas service records in a two person team

Activities

2014 – Present — RIT Robotics Club President (2015), RIT SPEX Cubesat and HAB development, RIT Amateur Radio Club, RIT Competitive Cyber security Club, ARM competition at 2015 Imagine RIT

2014 — Executive Officer - Koch Cup International Sailing Championship

2011 - 2013 — President of Computer & Technology Club at Naugatuck Valley Community College

1996 - 2014 — Boy Scouts of America, Sea Scouts

Honors

2015/2016 — Armature Radio General then Extra class license upgrade – KB1SQX, Deans List

2013/2014 — Epsilon Pi Tau Honor Society, Deans List

2012 — Phi Theta Kappa, Alpha Beta Gama, National Sea Scout of the Year, Deans List

2010 — SEAL First in class, Venturing Leadership Award

Major Projects

2015 — ARM Squared (ARM Bot) – Custom designed 3D printed semi-autonomous tracked robot with a utility arm. Part of a two person design team for the 2015 Imagine RIT ARM Development Competition. Powered by the ARM core of a Teensy 3.1 microcontroller, with future plans to integrate an ARM application core

2014 — Sumo Bot (Handy Bot) – A robot that utilizes ultrasonic, reflectivity, accelerometers, and compasses to autonomously immobilize or push an opposing robot out of an arena. Frame is a custom designed, 3D printed component. Robot is controlled by a Teensy 2.0++ Microcontroller, and powered by a lithium polymer battery. The robot utilizes DC gear motors and servos for movement and self leveling. Project was made with a small team for a robotics club competition.

2014 — Programmable TLS Meter – A microcontroller based data acquisition, computer interface, and control device for measuring, acting on, and collecting data from sound, light and temperature sensors. The device has extra expandability for other sensors and peripherals using an SPI interface. Project was done as part of a final project for Naugatuck Valley Community College.

Minor Projects

Prusa Mendel i2 and Printrbot Jr. 3D printer Build, 27 element LED cubes using a PIC microcontroller, miniature 3D printed cubesat key ring using a PIC microcontroller, laser/optical communication, Arch Linux server, personal website design, Arduino, PIC, MSP430, ARM circuits, and basic 3D printed parts, AM radio transmitter, many other projects in development.

Skills

Microsoft Office, Windows, OS X, Linux, Android, Visual Basic, C/C++, HTML, CSS, 3D modeling, radio communications, troubleshooting, researching, fast learning, helping others.

Interests

Learning new technologies, audio engineering, aerospace, optics, robotics, technology, AI, programming, astronomy, digital systems, 3D printing, electronics, amateur radio, RC aerial vehicles, microcontrollers, telecommunications, renewable energies, new things.