
EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, NY
Bachelor of Science in Computer Engineering, May 2019
Minor in Military Studies and Leadership, May 2019
GPA 3.55

SKILLS

Languages: \LaTeX , Python, Qt, VHDL, ARM Assembly, C/C++, Java
Hardware: FANUC & Kuka robots, Digital Multimeter, Oscilloscope, Function Generator
Software: GNU/Linux operating systems, command-line interfaces
Foreign Languages: German – Intermediate

EXPERIENCE

United States Air Force May 2019 – Present
Commissioned as a 2nd Lieutenant with an initial assignment as a Developmental Engineer.

RT Leaders | Munich, Bavaria, Germany Jun 2017 – Dec 2017
Programmed FANUC and Kuka models in both factory and laboratory locations. Implemented email-based support and ticketing system using MantisBT and integrated CppCheck into Jenkins.

RIT Computer Engineering Department Dec 2016 – May 2017
Researched and implemented networking protocols within a virtual domain for realization of real-world radio use cases, using a synthesis of C++ and Python.

Sol's Underground | Rochester, NY Sep 2014 – May 2018
Student Manager Aug 2016 – May 2018
Supervise 4+ student employees per shift, ensure proper temperatures of food products, authorize returns and student meal slips, and work directly with customers to solve problems or complaints.

PROJECTS

Low Cost Fundus Camera – Senior Design
Created low-cost design for a functional modern fundus camera capable of capturing screening quality images of the retina. Interfaced Raspberry Pi with linear actuators, motor HAT, and controllable LEDs. Designed user interface in PyQt.

Semi-autonomous Cell Battery Constructor
Designed and implemented operations for FANUC R-30iB to construct experimental cell batteries based on design parameters input by the user, as well as carrying pallets of materials into and out of airlocks.

USAF Ribbon Rack Visualizer – Personal Project
Developed PyQt application for visualizing ribbon racks with proper order of precedence. Designed with option to further extend support to other branches of the military.

Genesee River Raft – Personal Project
Constructed raft by hand from fallen timber and successfully floated it from RIT to the University of Rochester boathouse.

COMMENDATIONS

Commissioned Eagle Scout, 2014 - Computer Sustainability and Recycling Drive
BSA, Order of the Arrow - Vigil Honor, 2014
National German Honor Society - Chapter President, 2018-2019