

MAX MARSHALL

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PERSONAL SUMMARY

Hardworking fourth-year student with exceptional communication and analytical skills looking for Co-op opportunities in any combination of Aerospace Engineering and/or Computer Science.

EDUCATION

Rensselaer Polytechnic Institute

Expected 2023

Bachelor of Science Aerospace Engineering & Computer Science

Relevant Classwork Data Structures, Aerodynamics, Aerostructures, Computer Organization

SKILLS

Engineering Skills Siemens NX, Fusion360, Excel, AutoCAD, 3D Printing/Manufacturing

Programming Skills C++, Python, MATLAB, LaTeX, Comfortable in a *nix Environment
Experience with Parallel Processing and MPI

EXPERIENCE

RPI Center for Earthquake Engineering Simulation Lab

Fall Semester 2020 & 2021

Undergraduate Research Assistant

Troy, NY

- Providing programming assistance in the development of an automated saturation system
- Debugging existing code
- Providing experience maintaining and repairing electrical systems

RPI Critical CS

Spring Semester 2020

Undergraduate Research Assistant

Troy, NY

- Helped create surveys and collect data from CS students
- Addressed the potential of a revised CS curriculum with a focus on teaching ethical programming

RPI Union

Fall 2018 - Spring 2020

Student Employee

Troy, NY

- Performed general administrative duties

City of Woburn Engineering Dept

Fall 2016 - Fall 2018, Summer of 2019 & 2021

Paid Intern

Woburn, MA

- Worked on several projects utilizing a variety of engineering and surveying tools
- Drew plot plans and subdivisions in AutoCAD
- Mapped and performed inspections on catch basins, outfalls, manholes, and other city utilities

PROJECTS

Smart Fridge - Helped create a project which could allow any fridge to be retrofitted as a smart fridge (Smart_Fridge on GitHub)

Cluster Computer - Current personal project to create a cluster computer out of single board computers, and writing parallel code to be run on it (parallel-reqs on GitHub)

Open Source GoTo Telescope - Off-semester project to Design, Print, Build, and Program a Dobsonian Telescope Driven by a Raspberry Pi (Project-Atlas on GitHub)