

Caitlin Barron

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Objective:

To apply knowledge of Computer Engineering principles and gain valuable experience through co-op employment. Available for Summer and Fall of 2018.

Education:

Rochester Institute of Technology

Bachelor of Science in Computer Engineering

August 2015 – May 2020

GPA: 3.39 major, 2.79 cumulative

Courses:

Computer Science I & II

Circuits I & II

Digital Systems Design I & II

Assembly Language Programming

Computer Organization

Applied Programming

Technical Writing & Editing

Intro to Computer Engineering

Intro to Software Engineering

Skills:

Programming Languages: C++, Java, MATLAB, Python, C, ARM Assembly, VHDL, HTML, Make

Software: Eclipse, MATLAB, Altera Quartus, ModelSim, Keil uVision, PSPICE, IntelliJ

Hardware: Breadboard, Soldering, Oscilloscope, Digital Multimeter, Waveform Generator

Experience:

Saab Sensis

Syracuse, NY

June 2017 – January 2018

Software Engineering Co-op – Participated in the development and testing of software in C++ for data processing systems, mission critical processing systems, and data communications. Worked on systems using mode S and mode C communications with aircraft to improve air traffic control.

Ritz Sports Zone, RIT

Rochester, NY

August 2016 – February 2017

Student Employee – prepared and organized food orders, contributed to a fast-paced team environment.

Van Buren Park

Baldwinsville, NY

May 2015 – August 2015

Pool concessions/Pool gate – coordinated transactions, served snacks to pool patrons and their children.

Projects & Labs:

- Built an 8x8x8 cube of RGB LEDs to display and design patterns in a 3D space
- Created a Java program using the Spotify API to sort and tag MP3 files based on a user's playlist
- Worked on a team to create a basic platformer game using Java and Swing during RIT's Brick Hack 2016
- Used a breadboard with a variety of IC chips and LEDs to explore Boolean expressions and circuit logic

Organizations:

RIT Baja SAE

August 2016 - Present

- Developed software systems for data acquisition and testing to improve the design of an off-road racecar.
- Created a MATLAB program and user interface to sort and analyze real-time RPM and temperature values. These values were used to improve the efficiency of the clutches and car as a whole.

Women in Engineering at RIT

May 2015 – Present

- Member of the Computer Engineering leadership team for the W.E. Open House in 2016.
- Frequent volunteer to welcome and encourage both incoming and perspective women in engineering.