Madeline Mooney

✆ (585) 363-1526
✉ m.mooney098@gmail.com
⌨ github.com/maddiemooney

Computer Engineering student seeking coop for Summer of 2019

Education

2016–2021 **Rochester Institute of Technology**.
Bachelors of Science in Computer Engineering
3.39 GPA - Kate Gleason College of Engineering Deans List

Projects

Jan 2018 **Morse Code Redundancy**, *www.github.com/maddiemooney/mcr*.
Transmits then receives morse code using lasers and photoresistors.
Designed circuit, transmitting and receiving algorithm in Arduino C.

Feb 2017 **WriteBot**, *www.github.com/maddiemooney/writebot*.
Repurposing CD drives to create a mini CNC plotting machine.
Rewrote the stepper motor library for Arduino, other functionality written in Arduino C and Python.

Experience

Aug 2017 - **Teaching Assistant**, *Rochester Institute of Technology*.
Teaching assistant for Intro to Computer Engineering (CMPE 110), Digital System Design (CMPE 160)
Set up lab exercises, performed equipment quality checks, graded lab work, held weekly mentoring meetings and office hours.
Recipient of RIT CMPE Fall 2017 Teaching Assistant Award

May-August **Machine Learning Research**, *Rochester Institute of Technology*.
2017 Created an online monitoring system that takes sounds produced by different machining processes and labels them according to a classifier created by a support vector machine algorithm
Written in Python, using Scikit-learn, PyAudio, PyQt5, and PyQtGraph
Presented research findings at RIT Undergraduate Research Symposium

Skills

Languages VHDL, Verilog, ARM Assembly, C, Arduino C, Python, Java
OS GNU/Linux, MacOS, Windows
Tools/Misc Altera Quartus, Xilinx, Keil Uvision, ModelSim/ISim, PSPICE, LaTeX, Git

Activities

Aug 2016 - **Computer Science House**.
RIT Special Interest House
Editor of weekly newsletter, Segfault