

Madeline Mooney

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📄 github.com/maddiemooney

2nd year Computer Engineering student seeking coop for Fall of 2018

Education

2016–2021 **Rochester Institute of Technology.**

BS in Computer Engineering
3.34 GPA

Projects

Jan 2018 **Morse Code Redundancy**, www.github.com/maddiemooney/mcr.

Arduino project using lasers and photoresistors to transmit/receive morse code.

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.

Mar 2017 **JavaDogs**, www.devpost.com/software/javadogs.

Website to teach children concepts of object oriented programming.

Web interface written in HTML, CSS/Bootstrap, with Java for concepts of OOP.

Created in 24 hours for 2017 Women in Computing Hackathon submission.

Experience

May-August **Machine Learning Research.**

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

Aug 2017 - **Teaching Assistant.**

Teaching assistant for Intro to Computer Engineering lab (CMPE 110)

Set up lab exercises, performed equipment quality checks, graded lab work, held weekly mentoring meetings.

Recipient of RIT CMPE Fall 2017 Teaching Assistant Award

Skills

Languages Python, Java, C/Arduino C, VHDL, ARM Assembly

Markup HTML/CSS, \LaTeX

OS Linux, MacOS, Windows

Tools/Misc Microsoft Office, GIMP, PyQt, PyQtGraph, Git, JetBrains IDEs, Keil Uvision, ModelSim, Altera Quartus

Activities

Aug 2016 - **Computer Science House.**

RIT Special Interest House

Editor of weekly newsletter, Segfault

Aug 2013 - **Women in Computing Hackathon.**

24 Hour Hackathon held at RIT