

SARAH SCOTT

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EDUCATION

B.S. Electrical Engineering [graduated January 2015]

NYU Polytechnic School of Engineering

focus on embedded systems & controls

SKILLS

C/C++, Python, Git, ARM Assembly, embedded Linux (RPI, Beaglebone, Ambarella), MATLAB, html, css, sql, analog electronic design, PCB design, photoshop, arduino, vegan cooking, capoeira

EXPERIENCE

r&d engineering intern, canary, nyc . 05/14-12/14

I joined Canary, a crowdfunded home security startup, as a summer hardware engineering intern. My work included researching sensor technologies and prototyping an apparatus for device testing on the manufacturing line. My internship was extended in September so I could work part-time with the embedded software and QA teams. My work during this time included writing embedded Linux drivers in C and QAing Canary's iOS and Android applications.

electrical engineering intern, enertiv, nyc . 05/13-05/14

I worked with Enertiv's hardware team to build a robust energy consumption monitoring system to help commercial and industrial clients reduce their carbon footprints. This included the design and testing of high voltage energy monitoring electronics as well as firmware/software integration with user-facing web and mobile applications. Occasionally, I installed systems in places where no one but an electrician should be and I live to tell the tale.

PROJECTS

nyu green grant for energy efficiency . 05/14-present

I received a \$20,000 grant through NYU to pilot the Enertiv energy monitoring system in a student residence hall. As the project lead, I work with the Enertiv design team to create a new platform for student engagement with novel methods of energy data visualization. This project is currently underway at the Third North residence hall and will continue until May 2015, at which time we will publish our results and designs. Some designs are currently on display in the residence hall and can be provided upon request.

borromean resistance . 11/14

My collaborator and I built a generative system model of climate activism for Re-imagine Now, a show exploring the role of performance art in light of climate change. The system was comprised of a CUDA-rendered 3D image and an interactive electronic apparatus.

slime is not a dirty word . 12/13

This project was initially developed for Natalie Jeremijenko's Environmental Art Activism course as a lifestyle experiment. By cultivating a *Physarum Polycephalum* colony, I investigated the possible relationships between a human and a living network of distributed intelligence. This has evolved into an ongoing project to measure and visualize the electric communication and computations of the *Physarum*.

RELEVANT COURSEWORK

Object Oriented Programming (C++)

Introduction to Embedded Systems Design (ARM Assembly/C/C++)

Feedback Control of Dynamic Systems (C/C++)

Programming in C

Digital Logic and State Machine Design

Engineering Programming & Problem Solving (MATLAB)

Analog Electronics I & II

Environmental Art Activism

Fundamentals of Communication Theory