

NAKAYLA R. SMITH

EDUCATION

Bachelor of Science in Computer Engineering
Northeastern University

Extracurriculars: Wireless Club, Black Engineering Student Society, IEEE Student Chapter

May 2020
Boston, MA

WORK EXPERIENCE

GreenSight Agronomics
Computer Engineering Co-op

January 2017 – September 2017
Boston, MA

Manufactured five drones a week from blueprints and documentation to a production-level quality

Remotely flew turfgrass imaging drones for clients all over the United States, Canada, and Switzerland using MissionPlanner

Contributed to adjustments in iterations of the design using AutoCAD and drone calibration software

Designed 2 battery-related PCBs in Altium Designer for use in production-ready drones

Set-up and maintained 4 Ubuntu servers for processing, splicing, and stitching 22,000 images a day and uploading/downloading those images from an AWS service

Kode Connect
Arduino Instructor

January 2017–May 2017
Brockton, MA

Designed a curriculum and weekly lesson plans to teach basic Arduino programming through hands-on projects to kids aged 8–14

Projects included: a miniature timed stop light, sensors connected to a display showing the updated values in real-time, and a game of snake on an 8x8 dot display

Synergetic Media Learning Lab
Undergraduate Researcher

January 2015–July 2016
Boston, MA

Research assistant in a machine learning lab that focused on the image and video understanding from social media

Involved in data scraping and creating a kinship recognition visual database

Attended weekly lab meetings to learn new aspects of machine learning and computer vision

PROJECTS

Sumo Robot- Designed and programmed a battle robot that won 1st place in battle against 4 other robots

Personal Website- Hand coded my personal site with responsive design and hosted on GitHub with Google Analytics integration

Super TV Guide- Built an app that made show recommendations for users at YHack with the Viacom API, JavaScript and Bootstrap

Wthr- Built a weather web app at Hack Princeton that sent text notifications when large temperature changes or rain forecasts occur. The project used Bootstrap and the openweathermap and Twilio APIs

Mini Smarthome Project- Assembled several peripheral sensors, motors, a touch screen display, piezo speaker and RFID chip reader on an Arduino Uno device to demonstrate a proof-of-concept home monitoring system

LED Cube Soldering Project- Soldered 64 LEDs together in an 8x8x8 cube formation and controlled with an Arduino Uno

CONTACT

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🐙 github.com/kayla19

RELEVANT COURSEWORK

Embedded Design

Fundamentals of Networks

Discrete Structures

Engineering Problem Solving
and Computation

Differential Equations

Linear Algebra

Calculus 1 and 2

Circuits

TECHNICAL SKILLS

Soldering

Part 107 licensed drone
operator

Linux (Ubuntu, Bash)

RFID Programming

LANGUAGES/Frameworks

C++

MATLAB

HTML/CSS

C

Python

Bootstrap

AWS

JavaScript

SOFTWARE

Altium Designer

AutoCAD

SolidWorks

PSpice

Mission Planner