

Sophie Loughlin

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EDUCATION

University of Colorado Boulder

Candidate for Bachelor of Science in Computer Science and Engineering May 2020
Intended Engineering Leadership Certificate

Relevant Courses: APPM Calculus 1 and 2, Data Structures, Discrete Structures, Computer Systems, Linear Algebra, Software Dev. Methods and Tools

Honors/Awards: Engineering Honors Program, Engineering Leadership Program, Presidential Scholar, Engineering Merit Scholar

Holy Names Academy – Seattle, WA

May 2016

GPA: 4.0

Honors/Awards: AP Scholar with Distinction, President's Outstanding Excellence Award – Gold Award, Washington State Honors Award, National Honor Society

University of Washington, American Society of Materials Summer Program

August 2015

Partnered with a local fabricator to test, measure and record tensile strength and hardness of different types of steel; findings were presented to UW faculty and guests.

University of Colorado Boulder, Pre-college Engineering Program

June-July 2015

Collaborated with a small group to design and build an affordable educational tool that demonstrated various principles of electromagnetism. The final product was presented to, and critiqued by, CU faculty and staff.

WORK EXPERIENCE

ASME Electronics Packaging Journal Automation Contractor

October 2017

writing software to automate Excel spreadsheet updates

Normandy Park Swim Club Lifeguard and Swim Instructor

Summer 2017

Lake Washington Rowing Club Youth Program Coach

Summer 2017

PROFICIENCIES

Languages: BASH • C • C++ • C# • CSS • HTML • Java • Javascript • MATLAB • MySQL • PHP • Python

Tools: Git • ROS • OpenCV • Keras Neural Net • 3ds Max

Hardware: Raspberry Pi • Arduino • Soldering

RELEVANT PROJECT EXPERIENCE

RoboSub Team

Training Keras neural net and writing OpenCV code to recognize course objects

Stanton Concepts Tigr Lock – Software Development

Developed an application to check lock security

GeoRPG – Mobile App

Building out back-end and Google Maps API integration for a location based game Android app

Andrews Hall Vintage Rotary Phone Project

Leading a team to transform a late 19th-century wood wall telephone into a fully functional digital front desk phone with a Raspberry Pi and voice over Internet Protocol libraries

Holy Names FIRST Robotics Competition Team

September 2014 - April 2016

Founding member of the only all-girls FIRST team in the Pacific Northwest. Wrote autonomous methods, developed electrical systems, and designed and prototyped mechanical components.

EXTRACURRICULAR ACTIVITIES

RoboSub Software Team, oSTEM, Women in Computing, Society of Women Engineers

VOLUNTEER EXPERIENCE

Watershed Ecosystem Restoration, Northwest Harvest Food Sorting, Salmon Population Monitoring and Restoration