Managed the programming team (~12 members) for autonomous submarine capable of manipulating objects, aiming and shooting torpedoes, and navigating around obstacles. International finalist (7th Place) at RoboSub 2015.

2013 - 2016

Co-President, HPMS Branch Director ACE Coding

Managed ~16 volunteers to teach weekly programming lessons to ~100 middle school students annually.

Organized ACE Code Day an 9 hour event attracting - 200 students. Taught machine vision workshop

Organized ACE Code Day, an 8 hour event attracting ~300 students. Taught machine vision workshop.

Middle School Tutor Cambridge School Volunteers 2019 - 2020
SKILLS Proficient in: C C++ Python Javascript Java UNIX Shell

Familiar with: C# LabView Matlab Simulink Scala x86 Assembly Libraries: ROS OpenCV Theano PyTorch ReactJS TensorFlow

AWARDS USA Computing Olympiad Platinum Division Intel Science Talent Search 2016 Semifinalist

Eagle Scout MIT Battlecode 2018 Finalist (9th place)

PROJECTS C++ Low latency audio streaming to enable musicians to play together in-sync remotely using UDP hole-

punching

C Web browser using Chromium's rendering engine with configurable vi-like key bindings

C C compiler to convert C code to x86 assembly

Java Neural network AI for a multiplayer platformer fighting game

Python Musical autocomplete to assist chord and melody composition

Python Gridded workspace manager for the i3 Window Manager