

Peter Murray

peter@petermurray.net | (508) 560-1070

Worcester, MA

linkedin.com/in/petmurr/

petermurray.net

EDUCATION

Worcester Polytechnic Institute, Worcester MA

September 2019 – December 2023 (anticipated)

B.S. Mechanical Engineering (3.8/4.0), M.S. Robotics Engineering (4.0/4.0).

Relevant Coursework: Robotics Dynamics, Robot Control, Mechatronic Systems Analysis, Discrete Mathematics, Thermodynamics, Fluid Mechanics, Heat Transfer, Stress Analysis, Material Science, Differential Equations, Linear Algebra.

Sturgis Charter Public School, Barnstable, MA (3.7/4.0)

September 2016 – May 2019

PROFESSIONAL EXPERIENCE

Teledyne Marine, *Intern*, Falmouth, MA

May 2022 – August 2022

Developed a python tool to collect tidal current information to aid navigational software of autonomous underwater vehicles. Worked on a team to design and build a cart to transport unwieldy underwater vehicles. Created parts, drawings and assemblies for both engineering revisions and prototype manufacturing.

EdgeTech, *Mechanical Engineering co-op*, Wareham, MA

June 2021 – September 2021

Designed and shipped custom, add-on parts for customer's underwater tow vehicles. 3-D printed parts for prototyping and production. Created parts, part drawings, assemblies, assembly drawings and BOMS for new and existing products.

TWIC Certified.

TECHNICAL WORK & PROJECTS

Formula Electric

September 2022 - Present

Currently designing, building, and manufacturing the accumulator and power systems on WPI's electric racecar that competes in the "Formula Hybrid + Electric" 2023 competition.

High Power Rocketry Club

September 2021 - Present

Currently designing and building PCBs on the electronic design sub-team for 2022-23's rocket. Helped design, model, and prototype the UAV payload for HPRC's 2021-22 competition rocket.

Halftone Image Plotter

March 2022

Used a 3D printer to plot stylized drawings using instructions generated by a python tool.

Spotify Playlist Generator

October 2021

Using Spotify's API and the Spotipy library, wrote a simple program to access an account and create custom song playlists.

Double Pendulum Simulation

December 2020

MATLAB & App Designer – Animated a double pendulum, including a simple GUI.

Receiving Satellite Imagery

March 2018

Constructed an antenna to receive NOAA & Meteor-M-2 satellite imagery.

More details at www.petermurray.net.

SKILLS

Software: Solidworks, Fusion 360, Altium. Familiar with version control (EPICOR, IFS), ROS & \LaTeX , too.

Programming: (in order of proficiency) Python, MATLAB, Java, C, C++.

Prototyping: FDM 3D printing, laser cutting. Familiar with CNC milling/turning.