Peter Murray

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EDUCATION

Worcester Polytechnic Institute, Worcester MA *September 2019 - Present*

M.S. Robotics Engineering
B.A. Mechanical Engineering
GPA: 3.8
Relevant Coursework: Robotics Dynamics, Robot Control, Mechatronic Systems Analysis, Discrete Mathematics, Thermodynamics, Fluid Mechanics, Heat Transfer, Stress Analysis, Material Science, Differential Equations, Linear Algebra.

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.

SKILLS

Software: Proficient with Solidworks and version control software (EPICOR, IFS, Solidworks PDM, GrabCAD)
Programming: Proficient with Python, MATLAB, LaTeX. Familiar with Java, C and C++.
Prototyping: Proficient with FDM 3D printing and laser cutting. Familiar with CNC milling/turning.