

# Corey Murphy, E.I.T.

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## OBJECTIVE

To obtain a full-time mechanical engineering position at the conclusion of my MS degree in December of 2021.

## EDUCATION

**University of Rhode Island**, College of Engineering, Kingston, RI

Bachelor of Science, Mechanical Engineering and Minor, Mathematics

**May 2019**

Undergraduate GPA: **3.24**

Master of Science, Mechanical Engineering

**December 2021**

Graduate GPA: **3.89**

Passed FE Mechanical Exam

**September 2019**

**Relevant Courses:** Advanced Fluid Mechanics, Advanced Thermodynamics, Design of Machinery, System Dynamics, Heat and Mass Transfer, Tribology, Advanced Mechanics of Materials, Internal Combustion Engines, Mechanics/Control for Robotic Systems, Linear Control Systems, Ocean Renewable Energy

## ENGINEERING EXPERIENCE

**MSc Thesis Research**, University of Rhode Island

**Feb. 2020-Dec. 2021**

- Tasked with the research, design, development, and manufacturing of a small, versatile underwater propulsion module
- Utilized a waterjet system and innovative dual-channel nozzle design to generate additional thrust
- Extensive use of CFD and CAD software for propulsion module design and development
- Manufactured using Ultimaker S5 FDM 3D printers

**MCE Senior Capstone Design Teaching Assistant**, University of Rhode Island

**Sept. 2020-May 2021**

- Assist with grading, lectures, and maintenance/operation of Makerspace 3D printing lab/machine shop
- Advise and communicate with undergraduate teams to ensure successful Capstone Design Projects

**Digital Control of a Maneuvering Submarine**, University of Rhode Island

**December 2019**

- Designed and simulated a linear multivariable digital tracking system to control the overall motion of a submarine for Linear Control Systems final project

**Senior Capstone Design Team Project**, University of Rhode Island

**Sept. 2018-May 2019**

- Selected for the Airport Cooperative Research Program Design Competition group, collaborated in a team of four to design, build and test an autonomous drone meant to deter birds from airport grounds
- Initial and final design reports with formal presentations and final design showcase

**Mearthane Products Corporation**, Cranston, RI, *Production Engineer Intern*

**May 2018-Jan. 2019**

- Extensive process improvement project centered around bad bonding and holes found in orange foam
- Utilized Shanin Red X methods to efficiently draw statistically backed conclusions based on experimental results, daily data collection/analysis and operation of foam processing machines
- Assist with creating and implementing new process cards designed to replace outdated compound cards

**University of Rhode Island College of Engineering**, Kingston, RI, *Dean's Office Intern* **May 2017-May 2018**

- Assist with excel projects, data compilation, creating COE presentations and various office tasks

## LEADERSHIP EXPERIENCE

**University of Rhode Island**, MCE Capstone Teams 23/28, *Project Sponsor*

**Sep. 2020-Present**

**Boy Scouts of America**, Troop 1 Manville, *Eagle Scout*

**Sep. 2004-Jul. 2015**

## SPECIALIZED SKILLS

**Programs:** ANSYS Workbench, OpenFOAM, Inventor, SolidWorks, Cura, MATLAB, Microsoft Office