

Corey Murphy, E.I.T.

8 Rosemont Terrace
Lincoln, RI 02865

www.linkedin.com/in/corey-murphy-9a2520145

(401)-742-1541
corey_murphy8@uri.edu

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