
EDUCATION:

B.S. Candidate, Electromechanical Engineering 2021

Wentworth Institute of Technology, Boston, MA

Belchertown High School

Belchertown MA

ENGINEERING PROJECTS:

MATE ROV International Competition

WIT IEEE- Mechanical Team Leader

Led team of 10 in conception, design, and manufacturing of prototype ROV, tasks included:

- Evaluation of engineering problems related to recovery of fallen airplanes
- Design of custom manipulator for underwater use
- Design with the intention of manufacturability and tolerancing

ROBOT PENTATHALON

WIT ASME

Participated in the creation of a robot and competition in the Eastern States ASME Engineering Festival in Tennessee. Responsibilities included:

- CAD and rapid manufacturing of prototypes using 3D printing
- Final assembly, maintenance, troubleshooting
- Operation of robot during competition

FRESHMAN DESIGN PROJECT

Participated in a design showcase, demonstrating my groups' self-leveling platform in front of peers and professors. Responsibilities included:

- CAD of prototype
- Soldering motors and wiring for gyroscope
- Final wiring assembly and management

Accolades for the project include:

- Winner of Engineering Design Shark Tank 2017

LEADERSHIP EXPERIENCE:

Wentworth American Society of Mechanical Engineers-Treasurer (Jan 2017-Present)

Wentworth Robotics Club-Treasurer (Jan-Dec 2017)

WIT IEEE-Mechanical Design Lead (September 2017-Present)

WORK EXPERIENCE:

Lifeguard, YMCA, Boston, MA, Jan 2017-Present

Monitoring of patrons in pool and surrounding areas. Chemical monitoring of pool systems room and water quality and maintenance of pool area. On duty first responder for the YMCA complex.

Lifeguard, Belchertown Rec. Dept., Belchertown, MA, 2013-2016

Monitoring of patrons in pool, open water environment and surrounding areas. Upkeep of pool area.

Oversaw of patrons renting watercraft outside swim area. Daily set-up and tear-down of facility.

STRENGTHS AND SKILLS:

- Certified in First Aid, CPR, AED
- Proficient in Solidworks 2016 and Onshape
- 3D Printing using Makerbot Print and Cura
- Robotics design and assembly experience including soldering, wiring
- Excellent communication skills
- Experience in teamwork and team-oriented work environments
- Excellent computer skills in a variety of word-processing, spreadsheet and Matrix processing software