

MICHAEL ABADJIEV

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OBJECTIVE

Obtain an internship for the summer of 2019 in Mechanical or Robotics Engineering

EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

May 2020

- Bachelor of Science in Mechanical Engineering and Robotics Engineering
 - GPA: 3.0/4.0

SKILLS/CERTIFICATIONS

Computer: SolidWorks • SolidWorks PDM • Inventor • Fusion • AutoCAD • GrabCAD • Matlab • Java • HTML/CSS • Arduino

Tools: 3D printer • Laser cutter • Oscilloscope • Function Generator • Lathe • Drill press • Hydraulic shear • Vertical/horizontal bandsaw • Rotary grinder • Belt sander

Certifications: CSWA • OSHA 10 hour General Industry

Foreign Languages: Bulgarian (bilingual) • French (fluent) • German (intermediate)

PROJECTS

Unified Robotics I/II | Nuclear Reactor and Firefighting Robot

January 2018 - May 2018

- Designed and built robots to refuel simulated nuclear reactor and navigate a maze to extinguish candle
- Documented design and build process for mechanical, electrical and software systems
- Fully detailed Bill of Materials and assembly process for both robots

Software Engineering | Interactive Map Kiosk

October 2017 - December 2017

- Designed and developed an application for kiosks in the Brigham and Women's hospital full stack
- Managed 10 person team and led UI development

Rapid Prototyping Independent Study Project

March 2017 - October 2017

- Modified a 3d printer to allow it to print continuously with a widely adaptable mechanical system
- Presented and documented achievements and analyzed how proof of concept could be expanded

LEADERSHIP

Society of Automotive Engineers (SAE) | Worcester, MA

September 2016 - Present

Treasurer (2016-2018)

- Managed \$20,000 budget to build a race car for international competition
- Designed bodywork for aerodynamic efficiency for 2018 competition car

Collablab | Worcester, MA

September 2016 - Present

Lab Monitor

- On campus makerspace geared toward facilitating student's personal projects
- Tasked with ensuring safety and helping new members

WORK EXPERIENCE

Autopart.com Inc.

June 2018 - August 2018

Engineering Intern

- Implemented new backend website functionality
- Developed new product: container for valve lapping paste

Milara Inc. Milford, MA

June 2017 - August 2017

Mechanical Engineering Intern

- Designed a new pre-aligner test station for repeatability testing of Milara's Equipe product
- Managed incoming parts for assembly projects, sorting them by subassembly