

Marcus J. Putz

Campus Address:

Contact details
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Permanent Address:

Objective:

Highly motivated Masters of Mechanical Engineering student with extensive experience in robotics, coding, and analysis seeking a challenging position in Mechanical Engineering.

Education:

The Pennsylvania State University - University Park, PA
M.S. Mechanical Engineering

Anticipated Graduation Date: June 2023
GPA: 4.00/4.00

The Pennsylvania State University- University Park, PA
B.S. Mechanical Engineering
International Engineering Certificate
Certified SolidWorks Associate, ASME Member

May 2021
GPA: 3.72/4.00

Experience:

- **Teaching Assistant - State College, PA** August 2021 — Present
 - Mentored and taught over 80 students in ME 454 (Mechatronics), emphasizing hands-on learning to improve student success.
- **Graduate Research Assistant - State College, PA** August 2021 — Present
 - Researching metrics of safety for Autonomous Vehicles within a work zone.
 - Conducted research with the Intelligent Vehicles and Systems Group, leading a team of 8+ students in retrofitting a Ford Transit Connect for autonomous driving mapping purposes.
- **Platform Engineering Intern - Wabtec - Erie, PA** May — July 2021
 - Developed and implemented instructions for fixing traction pins, resulting in reduced damage
 - Collaborated internationally on modifying platforms
- **Undergraduate Research Assistant - State College, PA** August 2020 — May 2021
 - Continuing research work with Intelligent Vehicles and Systems Group on the creation of digital roadways and a 1/5th scale autonomous driving testing platform.
 - Assisted in automating the creation of the IVSG lab web page
- **Learning Factory Intern - Remote** June — August 2020
 - Collaborated with a research team to develop MATLAB functions for creating digital roadways for autonomous driving simulations
- **Systems Engineering intern - Faiveley Transport Leipzig - Leipzig, Germany** May — August 2019
 - Designed HVAC systems for clients in the Systems Engineering department, conducting research into compressor modulation technology with the criteria of power, weight, and cost.

Honors, Awards, and Certifications:

- Certified SOLIDWORKS Associate in Mechanical Design (CSWA) December 2020
- Eagle Scout Award June 2017
- Dean's List August 2017 — May 2021
- Penn State Behrend Honors Program May 2019
 - Honors Coursework - Chemistry I, Effective Speech, Human Physiology

Technical Skills:

SolidWorks, Autodesk Inventor, Microsoft Office Suite, MATLAB, Ansys, C++, Java, XML, HTML, RoadXML, NX

Language Skills:

- German: Professionally fluent