

# Marcus J. Putz

Campus Address:

Contact details

Permanent Address:

mvp5724@psu.edu

## 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