Jeremiah J. Ondrasik

Computer Science Major
Computer Engineering & Math Minor
Cum GPA: 3.96   Class of 2027

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Education

- Penn State College of Engineering Bachelors   (Summer 2023 – Current)
- SolidWorks Professionals & Associates CAD Certification   (2020)
- American Red Cross CPR Certification   (Spring 2022 – Current)

Work Experience

- CMPSC 131/132 Learning Assistant   (January 2024 – Current)
  - Teach a class of 700 students Object Oriented Programing and Data Structures
  - Hold group office hours (about 20 students) to assist with homework's and labs
- Envinity Mechanical Drafting Intern   (Aug 2024 – Current)
  - Develop family housing construction documents for mechanical infrastructure and layouts
- Barton Associates Mechanical Engineer Intern   (Aug 2022 – Aug 2024)
  - Design mechanical and electric infrastructure for buildings using Revit and AutoCAD.
  - I directly contributed to 4 major projects, including Mount Nittany Hospital Expansion.
- YMCA Swim Instructor   (May 2022 – Current)
  - Teach groups of swimmer's strokes and coordinate lesson times with parents.
- Weis Markets Stocker   (Jan 2022 – Current)
  - Unpack merchandise, load / unload trucks, and delegate tasks to a team of associates.

Skills

- Programing experience:
  - 5 Years: Python
  - 2 Years: C++,
  - 1 Year: C, Java, HTML, CSS, JS
- CAD experience:
  - 5 Years: SolidWorks
  - 3 Years: Fusion 360, OnShape
  - 2 Year: Revit, AutoCAD

Clubs

- Ri3D at Penn State (Mechanical Systems Team Leader)   (2023 – Current)
  - Gather and combine design ideas from a team of 50 people, and coordinate the construction of a final robot for a FIRST composition, within three days.
- PSU Robotics (Team Leader)   (2023 – Current)
  - Lead a team of 3 in development of an autonomous robot each semester.
- Penn State Bowling Team   (2023 – Current)

Personal STEM Projects

Using online resources, I teach myself how to build and program personal projects.

- Personal Portfolio Website: (link at top)
  - Originally based in HTML, CSS, & JS, I am now expanding upon my website to implement a backend for data transfer of personal sensors and cameras
- Robotic Arm with EM Griper:
  - Using an Arduino, servos and microelectronics I built a 6 axis, fully 3D printable, robotic arm. With a user interface constructed in C++
- DIY First Person View (FPV) Drone:
  - I build and code drones that have live video feeds and reach speeds of 80mph
- Shift Register Display:
  - Using SN74HC595N binary shift registers and an Arduino I built an active LED sign