

# Steven Klinefelter

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## Education

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### Elizabethtown College

BS in Engineering with Concentration in Mechatronics (GPA: 3.11)

August 2021 – April 2025

Elizabethtown, PA

## Experience

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### Undergraduate Researcher

Elizabethtown College

May 2023 – August 2023

Elizabethtown, PA

- Applied deep learning technologies to JayRadar.
- Presented and demonstrated our co-processor program.

### Information Technology Intern

Palmyra Area High School

May 2018 – August 2020

Palmyra, PA

- Re-imaged Mac Book's and Windows computers.
- Updated and edited the image that was put on the Windows computers.

## Projects

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### OmniPi

September 2023 – November 2023

- Built an omnidirection robot using a Raspberry Pi and dc motors.
- Programmed a web interface implementing AI technology.
- Won second place in Etown CS Club's Coding Competition.

### JayRadar

May 2023 – August 2023

- Tested and analyzed the accuracy of custom trained AI models.
- Designed a co-processor agnostic vision program for the FIRST Robotics Competition.
- Profiled and refined python code for optimized resource consumption.

### Plumbing Trainer

January 2022 – May 2022

- Built a teaching aid used to introduce students to the trade of plumbing.
- Received an award for Recognition of Excellence and Professional Potential.
- Inspired an article in Contractors Magazine.

## Activities

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### Etown RMI Club President

- Secured donations from local businesses to fund workshops and events.
- Organized events relating to the fields of Robotics and Machine Intelligence.
- Hosted competitions encouraging students to explore individual projects.

### FIRST Robotics Competition

- Programmed award winning autonomous programs and routines.
- Debugged Linux systems and python programs.
- Contributed to placing in the top 7 teams world wide and winning our division.

## Skills

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**Programming:** Python, C, MATLAB, Java, JavaScript, React

**3D Modeling:** Autodesk Inventor, OnShape, Solidworks

**Fabrication:** 3D Printing, Laser Cutting, Plasma Cutting, Soldering