

# Jaron M. Plotkin

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## EDUCATION

**The Ohio State University: College of Engineering**

**Columbus, OH**

Bachelor of Science

Expected Graduation: May 2027

- Major: Mechanical Engineering
- Coursework: System Integration & Control, Fluid Mechanics, Machine Elements II, Measurements & Data Analysis
- GPA: 3.394

### **Technical Skills:**

- MATLAB
- Microsoft Excel, PowerPoint, and Word
- Onshape CAD
- Precise Machining

## PROJECT EXPERIENCE

**Machining Project: Air Motor Piston**

**Spring 2025**

- Crafted an air motor piston capable of handling speeds of up to 3000-4000 RPM by operating lathes, mills, drill presses, and other tool shop machines.

**Arduino Design Project: Desktop Bowling Game**

**Spring 2025**

- Assembled and programmed a desktop bowling game with the use of an Arduino and accessories that was capable of playing a 10-frame game of bowling with instructions, strike bonuses, and encoded feedback.
- Learned coding syntax, organizational habits within code, and effective troubleshooting techniques.

**Snow JAMD: Salt Dispensing Snow Shovel | Build Lead**

**Spring 2024**

- Developed and constructed an innovative prototype snow shovel that dispenses salt at a rate of at least 0.1 oz/s and is less than 15 lbs when full of salt.
- Responsible for the creation of the physical prototype as well as CAD modeling in Onshape, and documentation of the entire process.
- Invited to present the prototype at the Ohio State Engineering Design Showcase.

## WORK EXPERIENCE

**Ohio State University Makerspace | Makerspace Lab Assistant**

**Aug 2025 - Present**

- Played an active role in building the campus makerspace, ensuring safe and efficient operation and construction of fabrication tools and machinery such as 3D printers, CNC routers, laser cutters, lathes, mills, and electronics equipment.
- Created and run the Makerspace Instagram account. Responsible for outreach to new students and potential collaborations. Make consistent posts about campus events, updated hours, and other happenings around the Makerspace.
- Developed and built a CAD-modeled storage system to streamline organization of cleaning supplies, enhancing workspace efficiency and ensuring quick response to potential hazards.

**Camp Echo | Aquatic Counselor**

**Jun – Aug (2022-24)**

- Safely supervised up to 150 patrons in multiple different aquatic areas.
- During the night, responsible for about 12 children with up to 3 other co-counselors including basic hygiene, mediation, and entertainment.

## ACTIVITIES & INVOLVEMENT

**Tau Epsilon Phi | Brotherhood Chair**

**Apr 2024 - Present**

- Worked with the executive board to plan and implement brotherhood events, new member activities as well as giving insight into coordinated logistics, budgeting, and member engagement.

**American Society of Mechanical Engineers**

**Aug 2024 - Present**

- Participate in professional seminars, workshops, and networking events to gain industry knowledge and professional development.

**Hatzilu Rescue Organization | Volunteer**

**Sept 2017 - Present**

- Help prepare and deliver food for those suffering from food insecurity.