

# Jacob V. Shankel

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## PROFESSIONAL EXPERIENCE

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Dayton Photonics – Dayton, OH Summer 2025

### Engineering Consultant – Senior Design Capstone - 2

- Designed a calibration cart for our clients
- Implemented the proper mechanisms to utilize for the cart, as well as allowed it to be lightweight
- Managed client expectations and delivered them a durable calibration cart with both a pan and tilt mechanism

Saturn Sports – Dayton, OH Spring 2025

### Engineering Consultant – Senior Design Capstone - 1

- Developed a system prototype to monitor chin strap tension on American football helmets
- Identified the proper sensors and technology to implement
- Utilized CAD to create animations, models, and technical documents for clients

University of Dayton Ethos Lab – Dayton, OH Spring 2023

### Research Assistant

- Contributed to the research on recycling used plastic silverware from campus dining halls into 3D-printing filament
- Washed and ground up plastic silverware that was turned into extruded spools of filament

Congress Lake Club – Hartville, OH Summer 2022

### Bag Room Attendant

- Interacted with and served members and worked well with others to achieve a common goal
- Operated heavy machinery on the golf course

Merryweather Foam Factory – Barberton, OH Summer 2021

### Machine Operator

- Operated a KUKA automated arm to cut blocks of foam
- Assisted on a water jet and a vertical cutting table
  - Gained experience with manufacturing machinery

## ACADEMIC EXPERIENCE

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**University of Dayton – B.S. Mechanical Engineering** August 2025

Mechanical engineering student with experience in CAD, product development, and communication and collaboration with clients and a team. I am innovative and driven to overcome challenges and find effective solutions to issues.

**University of Bologna – IDSS - Industrial Design** August - September 2025

Completed an international program combining design study and on-site learning at major Italian automotive, food, and textile manufacturers.

## SKILLS

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| Arduino | CAD | Data Analysis | Design | Documentation | Laboratory Equipment | MATLAB | Microsoft Office | Project Management |