# Jacob Conrad

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## EDUCATION

**Marquette University**, Milwaukee, WI — May 2027
Major: Bachelor of Science in Mechanical Engineering — GPA: 3.892/4.000
Minor: Mathematics
Concentration: Innovation Leadership

**Benet Academy High School**, Lisle, IL — May 2023

## EXPERIENCE

**Kinectr** - Student Builder — February 2026-Present

- Collaborated with multidisciplinary engineering teams to design and prototype solutions for industry-sponsored projects under defined timelines and technical requirements.
- Applied CAD design, controls integration, and rapid prototyping methods to support full product lifecycle development from concept through testing and iteration.

**Marquette's Omron Advanced Automation Lab** - *FA* — January 2026-Present

- Delivered live demonstrations of industrial robotic systems to industry professionals, visiting groups, and Marquette engineering classes.
- Operated, maintained, and troubleshot Omron robotic platforms including TM5-900, Viper 650, and i4L-550 robots.
- Assisted with robot setup, safety systems, end-of-arm tooling, and system diagnostics.

**Pleasant Dale Park District** - *Seasonal Maintenance Associate* — May 2025-August 2025
**Radio Flyer** - *Seasonal Operations Associate* — December 2023- January 2024/ May 2024- August 2024

## ACTIVITIES

**Sales Leadership Academy - Engineering Sector** — 2025-Present

- Collaborated with industry partners to develop technical sales and engineering communication skills.

**Excellence in Leadership Program (E-Lead)** — 2024-Present

- Engaged in an innovation-based leadership curriculum, enhancing leadership skills and techniques.

**Marquette University Club Baseball** — 2023-Present

- Competed as a member of the Marquette Club Baseball team demonstrating leadership and teamwork.

## PROJECTS

**Self-Healing Coffee Mug – Closed-Loop Thermal Control Prototype**

- Designed and built a closed-loop temperature control system using a thermistor, voltage divider, and PWM-controlled heating element..
- Implemented feedback control to regulate water temperature, demonstrating principles of heat transfer and control systems.

**In-Pipe Water Turbine Energy Recovery System**

- Modeled an in-pipe turbine to convert fluid-driven mechanical energy into electrical energy.
- Placed second in Marquette Freshman Design Challenge, selected by engineering faculty.

## SKILLS

- Matlab
- SolidWorks
- Ansys Granta
- Welding
- 3D Printing
- DAQ Systems
- Marquette Lab Shop Training
- MS Office

## HONORS

- **Marquette's Dean's Award to Outstanding Engineering Students - Twice** — 2024/2025
- **Opus College of Engineering Dean's list - Five Semesters**
- **Illinois State Scholar** — May 2023