

Zachary Rempell

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Education

University of Colorado Boulder – Boulder, CO

May 2026

- **Bachelor of Science** – Mechanical Engineering
- **Minor** – Engineering Management

Experience

Test Systems Design Intern, Creation Technologies – Westminster, CO

Jun 2025 – Aug 2025

- Collaborated with engineering and business teams to develop and integrate automated test software for voltage and resistance systems, improving consistency and reducing manual effort.
- Created an internal training matrix to track employee skills and onboarding progress, enhancing team organization and knowledge sharing.

Mechanical Engineering Intern, RADAR – San Diego, CA

Jul 2024 – Aug 2024

- Supported hardware prototyping and testing for computer vision and RFID systems, contributing to early-stage product development.
- Collected and organized defect data from manufacturing tests and presented key findings to engineering and business teams to inform design decisions.
- Designed and built custom tools, including a mobile sensor testing rig and a computer vision prototype.

Robotics Activity Lead, Life Camp – Pottersville, NJ

Jul 2022 – Aug 2022

- Developed and led an 8-week robotics-based STEM curriculum for children ages 6–14 at a nonprofit summer camp.
- Led daily robotics sessions for 100+ children (ages 6–14), using Lego Mindstorms to teach engineering principles.

Robotics Internship, Robot Revolution – Summit, NJ

May 2022 – Jun 2022

- Built a class organization tool using SQL to streamline internal scheduling and data management.
- Taught coding and problem-solving using Lego Mindstorms and Scratch, engaging 100+ students daily in hands-on learning.

Sales Associate, J.Crew – East Hampton, NY

Jun 2021 – Aug 2021 & May 2023 – Jul 2023

- Top-performing men's sales associate, leading in sales-per-hour while delivering personalized service in a high-volume store.
- Maintained merchandise standards and supported operations across the sales floor and stockroom.

Additional Experience

VEX Robotics, Robot Revolution – Summit, NJ

Sep 2013 – Jun 2022

- Team Captain and Lead Designer for competitive robotics teams, placing as high as 3rd in the New Jersey State Tournament.
- Participated in the 2021 World Vex World Championship Tournament for Tipping Point

Delivery Volunteer, G.R.A.C.E – Summit, NJ

Sep 2020 – Jun 2022

- Organized, packaged, and distributed 100s of bags of essentials weekly to underserved local residents

Volunteer, Food Pantry – East Hampton, NY

Jun 2021 – Aug 2021

- Assisted in sorting, packaging, and transporting food donations for those in need across the greater hamptons area

Certifications

SOLIDWORKS Associate - University of Colorado Boulder

May 2024

Skills

CAD Tools: SolidWorks, Fusion 360, Inventor, Rhino, OnShape

Manufacturing: Additive Manufacturing, Laser Cutting, CNC Routing

Programming: Python, C++, MATLAB, LaTeX, NI LabVIEW, NI TestStand

Tools & Platforms: Microsoft 365, Google Suite, Jira, Trello, Notion