

Ty Snyder

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EDUCATION

University of California, Berkeley

May 2028

Intended Major - Mechanical Engineering

GPA: 3.54

Relevant Coursework: Foundations of Signals, Circuits & Devices, Solid Mechanics, Dynamic Systems & Feedback Controls

WORK EXPERIENCE

Intech Mechanical

Roseville, CA

BIM Intern and Addon Programmer

January 2023 – August 2025

- Developed a solo C# 25k line addon that optimized workflow to save time, removing 60% of repetitive tasks.
- Produced detailed drawings for the field and shop teams for manufacturing and installation.
- Remade existing or broken addons to save costs and make them more user-friendly and effective.
- Collaborated with a team of 9 to meet upcoming deadlines for projects.

C88C Computer Science Mentor

Berkeley, CA

Tutor and Mentor

January 2025 – May 2025

- Tutored a small group of students in Python and SQL to help improve their understanding in class.
- Proofread the document and handouts to make sure they were in scope of class and correct errors.

LEADERSHIP & INVOLVEMENT

Combat Robotics at Berkeley

Berkeley, CA

Project Manager

June 2025– Present

- Manage a 15k budget and timelines to keep members on track for their next competition.
- Assist returning members in idea generation, team forming, and the manufacturing of robots.
- Lead the drive team in creating a 30lb malware, ensuring the drive is robust and reduces the gyroscopic effect.
- Built a timing belt calculator to ensure belts fit well and prevent slipping.

Open Cal Research Lab

Berkeley, CA

Undergrad Researcher,

August 2025 – Present

- Lead CAD organization to keep the document running smoothly and user-friendly for public release.
- Help design an open-source Computation Axial Lithography 3d printer using the knowledge gained through research efforts.
- Built optimized parameterization to be able to accommodate different projectors without full reCAD.

PROJECTS

- Quadruped V2 (Personal) - Current
- Combat Robotics 30Lb named Malware(Team) - 2025
- Robot quadruped (Personal) - (2023 - 2024)
- 2112A Vex Robot Competition Captain/Founder (Team) - (2021 - 2024)
- Autonomous GPS-driven RC car (Duo) - 2023
- Modify RC boat to automatically drive with GPS and send data to on-land server (Team) - 2022

SKILLS

Software: Autodesk Fusion, Onshape, Autodesk Workflow Automation, Revit, C#, Python, SQL, Java

Communication: Student Coaching, Team Leadership, Technical Documentation, Public Speaking

Technical: Mechanical Design, HVAC & Plumbing Systems, Sensors, Robotics, Automation