

Carl Balzarano

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EDUCATION

University of California Davis

Davis, CA

GPA: 4.0

Expected Graduation: June 2027

B.S. Mechanical Engineering

Cabrillo College

Aptos, CA

GPA: 3.74

Graduated: May 2025

A.S. Engineering, A.S. General Sciences, A.S. Mathematics, A.S. Physics

WORK EXPERIENCE

TRC, Distribution Engineering Intern

June 2026 – September 2026

- Collaborated with a 20-25 member engineering team to design overhead and underground electrical distribution lines for PG&E.
- Executed multiple comprehensive job packages utilizing AutoCAD, Excel, GIS, and O-Calc.
- Directed a 7-member intern project team, facilitating communication, coordinating meetings, and delivering the final technical presentation.

LEADERSHIP EXPERIENCE AND SCHOOL INVOLVEMENT

Sudoku Club, Founder/President

August 2024 – May 2025

- Organized monthly meetings and distributed weekly newsletters to a 50+ member base.
- Planned schoolwide events, managed club budgeting, coordinated team communications, and systematized official documentation

The HUB at Cabrillo College, Math Peer Tutor

January 2024 – May 2025

- Educated and mentored 5-7 students weekly through targeted one-on-one tutoring sessions in Precalculus, Calculus I, and Calculus II.
- Adapted instructional methods to individual learning styles to improve students' academic performance and mathematical comprehension.

RELEVANT PROJECTS

Manufactured Totem Piece

Fall 2026

- Collaborated with a student engineering team to machine a 22-segment aluminum totem pole assembly.
- Coordinated with peers to verify component interfacing, ensuring geometric tolerances of +/- 0.005 inches.
- Operated manual mills, lathes, and drill presses alongside CAD software to fabricate and finish the assigned structural component.

Recycled Rechargeable Battery Pack

Spring 2025

- Engineered and prototyped a low-cost, sustainable portable phone charger utilizing reclaimed lithium-ion batteries.
- Formulated a product goal to provide reliable power access for unhoused populations, merging sustainability with community impact.
- Applied 3D modeling, circuit design, and rapid prototyping to manufacture a fully functional device.

SKILLS

Technical: SOLIDWORKS, Autodesk AutoCAD, Autodesk Fusion, Excel, Matlab, GIS, O-Calc, Cura

Fabrication: TIG Welding, MIG Welding, Stick Welding, Lathe, Mill, CNC Mill, 3D Printing