

Eyan Documet

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Mechanical Engineering student well-versed in mechatronics, energy and electrical systems, programming, simulation, prototyping, and manufacturing. Proven leader and collaborator. Eager to contribute to impactful technologies.

EDUCATION

University of California, Berkeley Berkeley, California
Bachelor's of Science in Mechanical Engineering (GPA: 3.31) Fall 2025

College of the Canyons Valencia, California
Associate of Science for Transfer in Physics & Mathematics (GPA: 3.88) Spring 2023

EXPERIENCE

College of the Canyons Valencia, California
MESA Tutor April 2022 - May 2023

- Delivered targeted instruction in various subjects including Calculus, Linear Algebra, Differential Equations, Physics, Engineering Mechanics, Chemistry, and more.
- Led biweekly review sessions, improving student understanding of core concepts, resulting in measurable academic improvement.
- Worked directly with students 1-on-1 to develop individualized study plans, work through problem sets, and cultivate high-level intuition.

College of the Canyons Chemistry Club Valencia, California
Vice President February 2023 - June 2023

- Co-led the development and execution of experimental designs in concert with college faculty to ensure safe and educational demonstrations.
- Communicated and discussed implications of experimental results with a body of 20+ club members.
- Managed the procurement of chemicals, equipment, and safety materials while optimizing cost.
- Organized and presented live scientific demonstrations at public events, simplifying complex chemical principles for a general audience.

PROJECTS AND ORGANIZATIONS

- **CalSol (Rear Suspension Team)**. Design of rear one-wheeled suspension for solar-powered race car. Incorporated FEM analysis to validate structural integrity and minimize weight while maintaining durability for competitive and dynamic racing conditions.
- **π RoBot (Mechanical and Design Lead)**. 3DoF robotic fire-suppression system for detection, prevention, and suppression. Focused on portability, modularity, and autonomous operation in hazardous/remote environments.
- **MATLAB Finite Element Solver**. MATLAB-based FEM solver programmed from scratch for structural and thermal analysis.
- **"Safety Grenade" Wearable Security Device (Manufacturing and Tolerancing Lead)**. A pin-activated wearable and throw-able alarm system designed for emergency communication.

TECHNICAL SKILLS

- **CAD/3D Design/Simulation:** Solidworks, Fusion360, Simulink, Blender
- **Engineering & Manufacturing:** Prototyping, Circuit Design, Arduino & ESP32, Soldering, Additive and Subtractive Manufacturing, CNC
- **Mathematics & Analysis:** Finite Element Analysis, Control Theory, Dynamics
- **Programming Languages:** Python, MATLAB, C, C++, Java, L^AT_EX