Eyan Documet

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Mechanical Engineer with expertise in additive manufacturing, mechatronics, thermodynamics, materials, and design; seeking aninternship for Summer 2025.

EDUCATION

• University of California, Berkeley – BS in Mechanical Engineering | 3.31 GPA

December 2025

• College of the Canyons – AS-T in Mathematics | 3.88 GPA

June 2023

• College of the Canyons – AS-T in Physics | 3.88 GPA

June 2023

EXPERIENCE

Rear Suspension Engineer, UC Berkeley Solar Vehicle Team – Berkeley, CA

Feb 2022 – Present

- Led the transition from aluminum to carbon fiber for structural components, roughly halving part-count, reducing weight by 30%, and maintaining strength and rigidity.
- Participated in design reviews with team leads and project managers, providing technical input that refined designs and ensured alignment with project objectives and timelines.
- Collaborated with a team of student-engineers to integrate multidisciplinary solutions, enhancing project outcomes and promoting knowledge sharing across teams.

Vice President, College of the Canyons Chemistry Club – Valencia, CA

February 2023 - June 2023

- Collaborated with faculty to co-develop and execute experimental designs, ensuring safety and educational value for 100+ participants in live demonstrations.
- Led discussions on experimental results, effectively communicating complex chemical concepts to 20+ club members and fostering deeper understanding.
- Managed procurement of chemicals, equipment, and safety materials for performing demonstrations in novel environments.

MESA Tutor, College of the Canyons – Valencia, CA

April 2022 – May 2023

- Delivered targeted instruction across multiple STEM subjects, enhancing comprehension for over 50 students per semester.
- Led biweekly review sessions in concert with course faculty, boosting student exam scores by 15% through focused concept reinforcement.
- Developed personalized study plans and guided students through problem sets, cultivating advanced problem-solving skills and intuition.

PROJECTS

- "πRo-BOT" Autonomous Fire Suppression System 2.5-DoF robotic platform for autonomous fire detection, prevention, and suppression in hazardous and remote environments. Prioritized portability and modularity. Efficient finite-state machine written with event-driven programming.
- "Study Buddy" Smart Lamp Smart RGB-LED desk lamp employing IoT principles to automate study routines, integrating Pomodoro cycles, adaptive light temperature, and prioritized productivity alerts.
- "Safety Grenade" Wearable Security Device Pin-activated, wearable/throwable alarm system for emergency signaling in hostile or unsafe scenarios.

SKILLS

- CAD & Simulation: SolidWorks, Fusion 360, Simulink, Blender
- Prototyping & Manufacturing: 3D Printing, CNC, Circuit Design, Soldering, Arduino, ESP32
- Analysis: FEA/FEM, Control Systems, Dynamics, Thermodynamics
- **Programming:** Python, MATLAB, C/C++, Java, LATEX