Daniela Guerra

danielaguerra@berkeley.edu | San Francisco, CA | Portfolio | LinkedIn

EDUCATION

University of California, Berkeley   August 2021 – May 2025

B.S. Mechanical Engineering | Concentration in Electrical Engineering and Computer Science | SCET Certificate

PROFESSIONAL EXPERIENCE

Tesla Motors | Fremont, CA

Process Engineer   July 2025 – Present

- Overseeing installation, and launch of new production lines for upcoming products within Body-in-White, owning liftgate and hood processes from tooling coordination to line validation
- Adapted processes for new products by directing tooling redesigns and line-feeding automation, eliminating five headcount positions and generating $700,000 in savings

USA Launching Pad | San Francisco, CA

Project Management Intern   October 2024 – May 2025

- Managed Matom.AI and Cloudsoft launch in the US, analyzing market data and providing strategic market entry decisions
- Lead outreach and customer discovery efforts, conducting 50+ interviews and market tests to refine business models

Tesla Motors | Fremont, CA

Manufacturing Equipment Engineer Intern   May 2024 – August 2024

- Prototyped and deployed body carrier traceability systems and robotic adhesive automation system, integrating sensor hardware and software logging, eliminating weekly downtime and generating $410,000 in annual savings
- Optimized station layout by increasing buffer capacity and applying GD&T to improve part quality, reducing dimensional defects and delivering $340,000 in efficiency gains

Quality Engineer Intern   May 2023 – August 2023

- Developed Python and SQL pipelines automating data processing and trend analysis, reducing 3 days/week of manual work
- Built Tableau dashboards for cross-functional teams to iterate on defect root cause, reducing Top 1MIS defects by ~0.9%

Grupo Cognitive | San Salvador, SV

Data Science Intern   June 2022 – August 2022

- Prototyped real-time ML-driven dashboards and data visualization systems to track market trends with AWS and Power BI, reducing manual reporting by 15 days/month, and improving customer retention across key sectors by 12%
- Created real-time market intelligence platforms and data reports that guided business proposals, enabling 20 client expansions and securing $600,000 in new revenue

Global Alimentos | San Salvador, SV

Project Management Intern   January 2021 – August 2021

- Led solar panel implementation project proposal covering 85% of energy use, saving $170,000 annually with 1.2-year ROI

PROJECTS AND PRODUCT DEVELOPMENT

Yapp | San Francisco, CA

- Designed and built iOS app (SwiftUI and Firebase) with real-time availability widget; launching Oct 2025 to reconnect friends through spontaneous interaction, and developed Unity prototypes for early UI testing

Chamba | San Francisco, CA

- Developed functional prototype of two-sided platform with backend integration for instant service bookings, enabling fractional employment and credibility through reviews and verifications

Powda | Berkeley, CA

- Prototyped dispensing device for powders and granules supporting use cases from Alzheimer's pill management to cooking recipes and gym supplements; Awarded 1st Place at UC Berkeley Engineering (300+ participants)

UC Berkeley Solar Vehicle Team | Berkeley, CA

- Directed suspension and hubs design, boosting vehicle performance by 38% in road tests through NX CAD modeling, FEA simulations, and iterative redesign

Protect Corals Organization | San Salvador, SV

- Founded and led nonprofit raising $10,000 in funding for coastal school technology and supplies, provided food baskets for 1,000 families, and directed the release of 3,000+ endangered turtles

SKILLS

Technical   CATIA, SolidWorks, AutoCAD, ANSYS, COMSOL, GD&T, DFM/DFA, Python, Swift, SQL, MATLAB, AWS