Katelyn Lee

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EDUCATION

University of California, Berkeley – College of Engineering

MEng in Mechanical Engineering (Product Design) Enrolled; withdrew to pursue Apple internship

Bachelor of Science in Mechanical Engineering GPA: 3.6/4.0 **|** (May 2025)

- **Fung Excellence Award Scholarship**, Berkeley Certificate in Design Innovation
- **Relevant Coursework:** Advanced Engineering Design Graphics, Engineering Mechanics II, Behaviors of Engineering Materials, Electronics of the Internet of Things, Dynamic Systems and Feedback, MATLAB

PROFESSIONAL EXPERIENCE

Apple Inc. – *Engineering Program Manager Intern* **Sep 2025 – Present**

- Partnered with Product Design, Reliability, and Industrial Design teams to drive development of next-generation soft-goods accessories, aligning color, material, and finish (CMF) deliverables across designs
- Served as Color EPM, managing cross-functional schedules, sample tracking, and vendor readiness to ensure timely and high-quality execution of color and material builds across multiple soft-goods programs
- Managed documentation, risk trackers, and milestone reports to maintain clear program visibility, improve cross-functional communication, and ensure consistent alignment across internal teams and suppliers

University of California, Berkeley – *Undergraduate Teaching Assistant (TA)* **Sep 2024 – May 2025**

- Assisted in supporting core material for ME 103: Experimentation and Measurements and ENGIN 178: Statistics and Data Science for Engineers, covering experimental methods and data analysis to 200+ students

Delta Electronics - *AI Robotics Technology Intern* **June 2024 – Aug 2024**

- Developed and implemented AI navigation algorithms, boosting simulated task success rates by 35%
- Simulated robot behavior on uneven terrain and stairs using Mujoco and ManiSkill to validate control
- Designed and fabricated enclosures for sensor-motor integration, optimizing wiring in compact prototype
- Collaborated with AI, mechanical, and software teams to streamline integration and align with real-life goals

EnableTech – *Mechanical Engineering CAD Lead* **Sep 2021 – Dec 2022**

- Developed an edge-detection attachable sensor unit for wheelchairs, enhancing safety in uneven environments
- Transitioned alert feedback from auditory to haptic, improving user response time by 25% (client feedback)
- Designed 3D models for Ultrasonic and LiDAR housings, optimizing functionality and system integration

ENGINEERING PROJECTS

S-Pot Locomotive Plant Pot - *Project Manager* **|** Arduino, Robotics **Aug 2024 – Dec 2024**

- Designed and engineered a Theo Jansen-inspired leg system with custom 240 rpm high-torque DC motors and 3D-printed PLA linkages, enabling stable transport of 5+ lb plant pot payloads with fine-tuned motor control
- Integrated ultrasonic and solar sensors with ESP32 to autonomously navigate toward light and avoid obstacles
- Applied DFM and iterative CAD prototyping to refine joint stability, load handling, and sensor placement

Automated Light Switch - *CAD Designer* | 3D Printing, IFTTT **Jan 2024 – May 2024**

- Designed an automated light switch using Bluetooth to actuate room lighting via IFTTT device interface
- Developed CAD models and prototypes, refining the design based on user feedback and functional testing
- Facilitated features including housing holes, installation holes, and snap-fit components for assembly

Chesster (AI Chess Board) - *Hardware Lead Designer* **|** Python, Manufacturing **Jan 2023 – Apr 2023**

- Designed and manufactured a physical alternative to online chess, using AI to predict the next-best moves
- Constructed and assembled 14 laser-cut divider panels and an accessible housing enclosure with latches protecting wiring, power components, and hardware such as the LED sensors, Arduinos, button switches
- Managed the manufacturing process of the chessboard housing, finalizing dimensions to enhance GD&T
- Improved and soldered 64 reed sensors, connecting them to multiplexers for integration with the AI system

Miniature Wind Turbine - *CAD/FEA Lead* **|** SolidWorks, 3D Printing, Ansys FEA **Aug 2021 – Dec 2021**

- Designed and 3D printed a miniature wind turbine with rotor blades, support tower, and generator housing using SolidWorks and FEA analysis to achieve power generation and structural strength against deflection
- Analyzed performance of various angles of attack, pitches, and blade shapes to ensure maximum efficiency
- Achieved turbine weight of 1290g producing stiffness of 67.01N/m and max 2.14W power in 26 mph wind

SKILLS & ACTIVITIES

Technical Skills: GD&T, DFMEA, PLM (Product Lifecycle Management), DOE (Design of Experiments), DFM (Design for Manufacturing), Machining, Engineering Drawings, 3D Printing, Human-Centered Design, Agile, Asana, Tensorflow
Software: SolidWorks, ANSYS, 3DExperience, AutoCAD, Python, MATLAB, Creo, LabVIEW, Figma, LaTeX, Adobe
Others: Mandarin, Theta Tau (Professional Engineering Fraternity), Google Project Management Professional Certificate