

HENRY LEE

Incoming Mechanical Engineering At UC Berkeley

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SKILLS

CAD

- **Fusion 360, Solidworks, Onshape, KiCAD** used on various projects involving **FEA Analysis, sheetmetal design, and PCB Design**

Mechanical

- **3D Printing** and **Laser Cutting** used to rapidly prototype parts
- Created 3D models based on **DFM/DFA principles**
- Extensive **Fusion 360 CAM** and **MasterCAM** experience
- **CNC Mill, Lathe, Waterjet, and Router** experience
- **High-volume** and **high-mix low volume** manufacturing processes used on many projects

Electrical & Software

- Java, JavaScript, HTML, Soldering, Wiring, Crimping

Education

UC Berkeley

BASc in Mechanical Engineering
August 2025 -

- Admitted with 38k Scholarship

West Valley College

Dual Enrollment
June 2024 - June 2025

- GPA: 4.00/4.00
- Dean's List
- Multivariable Calculus, Differential Calculus, Linear Algebra

Los Gatos High School

August 2021 - June 2025

- GPA: 3.98/4.00
- AIME Qualifier
- 2 District Awards for Robotics and Engineering Achievement

EXPERIENCE

972 Iron Claw Robotics | Mechanical Director | Los Gatos

Aug 2024 - June 2025

- Led the mechanical design of a 50-student FIRST Robotics team using **OnShape** and applied **FEA** for design validation
- Used **Lean Manufacturing Principles** and **palletization** to optimize the manufacturing team, reducing lead times by 70%
- Used laser cutters and 3D printers to complete rapid prototyping of subsystems such as game piece intakes and end effectors
- **CNC mills, lathes routers, water jets** used for final subsystems, used **DFM** and 3D printing to create complex multipurpose parts

972 Iron Claw Robotics | Manufacturing Lead | Los Gatos

Dec 2023 - June 2024

- Led and taught the use of **CNC machines, Fusion 360 CAM, ANSI Drawings**, part inspection
- Used **One Piece Flow** and **GD&T** with design team to reduce machine cycle time by 75%

Los Gatos Recreation | Team Lead | Los Gatos

Dec 2022 - Aug 2024

- Lead for Tech with Teens program where 15+ students met biweekly to assist elderly people with their technology
- Featured in local Newspaper and integrated program into Los Gatos High School English volunteering unit

Projects

spiral: 65

- Custom 65% Keyboard created with **Fusion 360, KiCAD**, and **QMK** firmware
- Developed 5 prototype PCBs for 5 pin keyboard switches with **KiCAD Schematic Capture** and **PCB Layout**
- Machined 2 piece 6061 case on Tormach **CNC Mill** and CAMed with **Fusion 360 CAM**

Minimalist Cascade Wallet

- Wallet that cascades 3 cards out designed with **Fusion 360** and **Onshape**, machined on Tormach CNC Mill and CAMed on Fusion 360 CAM
- Created custom fixtures for production, reducing cycle time by 10%

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- An internal tool for the LGHS History Department created with **Figma, Node.js, React, SQL** and **AWS** infrastructure