

Keaten Tuttle

keatentuttle@gmail.com | Seattle, WA | linkedin.com/in/keatentuttle | (530) 368-1340

EDUCATION

California Polytechnic State University, San Luis Obispo

June 2023

Bachelor of Science in Mechanical Engineering | Additional focus on Product Design

Minor in Business Entrepreneurship

GPA 3.7

Relevant Coursework

ME251 (SolidWorks) | ME404 (Abaqus) | ME328 (Design for Stiffness) | IME418 (DFM) | CSC231 (MATLAB)

EXPERIENCE

Amazon

June 2022–Present

NVH Engineer (L5 - Promotion), WWDE NVH (Noise and Vibration) SME | Oct 2025–Present | Bellevue, WA

- Simulated acoustics of Amazon FCs and MHE products using COMSOL Multiphysics to ensure site safety
- Created 3D models and 2D drawings of acoustic solutions in Revit, AutoCAD, Inventor, and SolidWorks
- Standardized Simulation methods through Python scripts, Excel VBA inputs, and process documentation
- Innovated simulation method combining product testing and acoustic principles, improving result accuracy

Industrial Design Engineer (L4), WWDE NVH (Noise and Vibration) SME | Aug 2023–Oct 2025 | Bellevue, WA

- Designed and manufactured acoustic impedance tube testing apparatus to optimize composite materials
- 3D modeled and printed Amazon FC handling product and generated NVH testing report on prototypes
- Initiated cross-team collaboration on 3D modeling to reduce NVH simulation turnaround by 50%
- Created simulation ticket intake system to manage project work across teams and track simulation inputs
- Trained L6 and L7 senior scientists on FC Template NVH COMSOL Simulation methods

Industrial Design Engineer Intern, WWDE Reliability SME

| Jun 2022–Sep 2022 | Bellevue, WA

- Created a QuickSight dashboard to analyze the MTBF and MTTR of Material Handling Equipment (MHE)
- Created VBA software to automate the import of reliability data from the dashboard to Reliasoft BlockSim
- Reduced labor time by 99% (from 2 hours to 90 seconds) for creating Reliability Block Diagrams (RBD)
- Assisted with DFMEA cross-functional fulfillment center design events to reduce reliability risks

Clark Pacific

June 2020–May 2022

Products Engineering Intern, Prefabricated Building Manufacturer

West Sacramento, CA

- Designed Infinite Facade drawing package using AutoCAD and following DFM and GD&T best practices
- Analyzed custom building hardware connection with Abaqus FEA to assess failure modes and stresses
- Designed and tested concrete hardware strength and fatigue testing following ASTM Standards
- Integrated Bill of Materials (BOM) and work instructions for Infinite Facade manufacturing procedure

Utana Tech

November 2018–June 2020

Company Co-Founder, Consumer Electronics Accessories Startup

San Luis Obispo, CA

- Awarded 1st place at Cal Poly's Startup Weekend for designing an innovative standing laptop case
- Designed CAD models and engineering drawings in SolidWorks utilizing DFM and top-down design
- Produced four working prototypes, including additional self-fabricated 3D printed models
- Collaborated with vendors overseas for plastic injection molding design drawings and quotes
- Co-authored and submitted a provisional utility patent in collaboration with legal counsel

PROJECTS AND INTERESTS

- Bambu Lab P2S with Autodesk Fusion Printing projects (repairs, tools, art) **November 2025–Present**
- 1996 Toyota Land Cruiser HZJ75 restoration (CAD, electrical, and fabrication) **February 2025–Present**
- CPR Certified Amazon Office Safety Ambassador **September 2023–Present**
- Lean Six Sigma Green Belt Trained **March 2022**
- Cal Poly WOW Orientation Leader **September 2019**