Callie Bassett

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California Polytechnic University, Pomona

Bachelor of Science in Mechanical Engineering — *Pomona, CA*

Skills

- SolidWorks
- GD&T
- MatLab
- FEA
- SimuLink
- DFM
- CNC Machining
- Excel

Experience

GE Healthcare — May 2025 – Present
Field Engineer Apprentice — *San Francisco, CA*

- Troubleshoot complex electrical, mechanical, and software issues on X-ray and fluoroscopy systems in hospital environments, minimizing downtime and ensuring patient care continuity
- Utilize oscilloscopes to perform mAs measurements and validate imaging output
- Interpret circuit diagrams and schematics to isolate faults, replace boards, and restore system functionality
- Perform mechanical service and replacement of clutches, motors, and other precision components to maintain reliability of moving assemblies
- Ensure full compliance with FDA safety standards, completing required quality and documentation protocols
- Provide on-site customer service by listening to hospital staff concerns, explaining repair actions taken, and de-escalating issues to maintain trust and satisfaction

Cal Poly Pomona Liquid Rocket Lab — June 2022 – May 2023
Lead Systems Engineer — *Pomona, CA*

- Led a team of 4 engineering students in documenting requirements, interface specifications, and testing procedures for a gas-generator, turbo-pump rocket engine
- Collaborated with 30 students across 3 sub-teams to complete PDR by documenting technical specifications, meeting with project stakeholders, and defining requirements and verification methods
- Iterated on technical requirements by incorporating design margins to improve verification of engine performance during testing
- Prepared GANTT charts to highlight deliverables and communicate project timelines to team members and stakeholders
- Created tolerance-stack up sheet in Excel to determine manufacturing tolerances
- Created templates for FEA and CFD documentation to clarify analysis for current and future stakeholders
- Assisted team members in troubleshooting tensile testing of 3D-printed dog bone specimens to assess strength and consistency of Metal X 3D-printed components

Summit Machine (Precision Cast Parts) — Jan 2022 – June 2022
Mechanical Engineering Intern — *Rancho Cucamonga, CA*

- Created manufacturing drawings using SolidWorks for rough machining of metal cast aerospace components
- Collaborated with quality engineers to create engineering change forms and documentation to comply with AS13100
- Reviewed and updated tool list for CNC programs in NX software
- Executed setup and machining of a basic bore hole
- Created technical procedures for Carnaghi vertical lathes and pallet system

Projects

CNC Machine

- Designed and built a table-top 3-axis CNC machine
- Created machining drawings with GD&T for waterjet cutting of steel gantry
- Created G-code using Fusion 360

Linear Actuator Noise Cancellation System

- Designed a noise cancellation system with PVC pipe, stepper motors, microphones, and audio sensors to detect the wavelength of an audio input
- Implemented feedback loop to understand the correction factor required for the linear actuator to cancel noise
- Developed Arduino code to record input from sensors and control the output of the stepper motor

Robotic Arm

- Designed small robotic arm to pick up and crush tin cans
- 3D printed arm components