

Experienced in R&D, new product development, and field operations, with a focus on designing, testing, and optimizing robust solutions to ensure enhanced performance, seamless deployment, and reliable real-world maintenance of complex systems.

UC Berkeley Alumni Association (2025) Consultant Implementation Engineer

- Implementing and refining a CRM for the UC Berkeley Alumni Association, continuously improving their engagement and outreach capabilities.

Hayden.ai (2024-2025) Field Operations Engineer

- Designed and built custom test setups for camera calibration, performance validation, and field testing, scripting automation to improve efficiency.
- Conducted environmental and durability testing, ensuring product reliability.
- Retrofitted existing systems to accommodate prototype setups for sales demos and field testing.
- Collaborated with software and hardware teams to enhance autonomous system accuracy and improve product viability.

Castelion (2023) Senior R&D Technician

- Designed, tested, and implemented custom test fixtures for thermal, pressure, force, electrical, software, and explosives testing.
- Managed lab space expansion for a growing team within space limitations.
- Created a 40% scale rocket system with integrated full-scale avionics, recovery system, cameras, and ground fire control system, resulting in the first rocket launch for the company.
- Coordinated shipments and deployment of site containers/freight between offices and test sites.
- Assisted engineers in refining and testing prototype systems for hypersonic rockets.
- Managed suppliers and simplified designs to accelerate progress resulting in quicker iteration.

Galvanize Therapeutics (2022) R&D Lab Management Consultant

- Created test fixtures with electrical bridges, panels, and microscope attachments.
- Reverse engineered proprietary connectors and reworked cables to meet FDA standards.
- Designed and implemented off-site storage solution to support future growth.
- Sourced new tools and parts and created documentation for traceability.
- Managed outside vendors to deliver prototypes and test fixtures with significantly reduced resource requirements.

Intuitive Surgical (2020-2022) Senior New Product Development Technician/Lab Manager

- Designed prototype and production parts/tools for E-200 Generator testing.
- Supported software, electrical, and mechanical testing/debugging.
- Reworked PCB-mounted components and soldered down to 0201 sizes.
- Optimized prototype designs for efficient assembly.
- Planned and implemented lab space layouts for team growth and COVID compliance.

Cobalt Robotics (2018-2019) Robotics Technician/Manufacturing

- Coordinated software and hardware efforts to optimize design, development, and debugging.
- Mentored and trained the assembly technician team.
- Created and maintained technical documentation and build instructions.
- Ensured the security of software, hardware, and customer data.
- Built prototypes and production parts with 3D printing, machining, and laser cutting.
- Assembled, programmed, and repaired 100+ robots.
- Designed, built, and organized the manufacturing and test facility.
- Developed automated processes for remote robot control and interface management..
- Created test equipment, modular test tracks, and interactive QA environments.

Freelance Art Department Lead (2010-2018) Production Designer/Art Director/Props Master

- Collaborated with directors to execute artistic vision across projects.
- Procured, maintained, and oversaw property assets (hardware, vehicles, sets).
- Led small, efficient teams for diverse-scale project needs.
- Oversaw budgets, timelines, and progress reports for effective management.

SKILLS

Asset management
PCB rework
Debug
Documentation
Logistics
Operations
Procurement
Quality Control Analysis
Rapid Prototyping
Soldering
Supply chain procurement
X-Ray Inspections

SOFTWARE

Adobe suite
Fusion/NX/SW
Atlassian suite (JIRA, Confluence)
Linux/OSX/Windows
Visio
Windchill

TOOLS

CNC
Dremel
Lathe
Drill press
Laser cutting
Multimeter
Power/Hand tools
3D SLA & MJF

EDUCATION

UC Santa Barbara
Bachelor of Arts