Sean Bordley R&D / NPD / NPI

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.
- Setup and managed computer systems access for use during remote work.
- 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
AWS Administration
PCB rework
Debug
Documentation
Logistics
Networking
Operations
Procurement
Quality Control Analysis
Rapid Prototyping
Soldering
Supply chain procurement
Vibe Coding
X-Ray Inspections

SOFTWARE
Adobe Suite
Atlassian Suite
Fusion
Google Suite
Hubspot
Linux/OSX/Windows
Microsoft Office
NX
Solidworks
Visio
Windchill

TOOLS
3D SLA & FDM
CNC (3 axis))
Dremel
Drill press
Laser cutting
Lathe
Multimeter
Power/Hand tools

EDUCATION
UC Santa Barbara
Bachelor of Arts