

DANIEL GLICK

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Education

University of California, Santa Cruz
Network Digital Technology, Bachelors

Dec. 2024
Santa Cruz, CA

Key coursework - RISC-V & C, Embedded C Programming, Microcontroller System Design, Computer System Design, Software Engineering, Computer Networking, Data Structures & C++ Programming, Linear Algebra, Differential Equations & MATLAB, Vector Calculus, Technical Writing, Web Development

Experience

Slugbotics – UCSC Nonprofit | *Project Management, Financial Strategy, Engineering* **Sep. 2020 – May 2023**

- Created and implemented a business plan that grew the club budget from \$12,000 to \$65,000 in two years, funding expansion from 2 projects to 5 projects
- Built automated financial tracking in Google Sheets to eliminate manual expense reporting and improve budget accuracy
- Redesigned team policies and defined roles, introduced Jira and Agile workflows, and improved team productivity by roughly 40%
- Contributed directly to robotics projects by developing computer vision algorithms, redesigning electrical systems, and fabricating mechanical components while coordinating resources across teams

Projects

MATE Underwater Robotics | *Qt, OpenCV, C++, SolidWorks, Autodesk Eagle* **Sep. 2020 - May 2023**

- Led development of an OpenCV and Qt algorithm to detect underwater color gradients, enabling reliable color recognition despite refraction and poor lighting
- Redesigned the power distribution panel after a critical failure, eliminating unsafe wiring and ensuring compliance with electrical safety standards
- Assembled the ROV, adapted mismatched parts, repaired solder joints, validated electrical safety, and installed the finished Power Distribution Panel
- Identified faulty penetrators using oil submersion testing, preventing a catastrophic failure and coordinating a fast recovery to keep the project on schedule and saving \$10,000 worth of equipment

Combat Robotics (Battle Bots) | *CAD, Mechanical Fabrication, Systems Troubleshooting* **Jan. 2022 – May 2022**

- Designed and fabricated a 1 lb combat robot from scratch using CAD tools, focusing on weight optimization, durability, and weapon effectiveness for competitive performance
- Machined and assembled custom components, integrating drivetrain, armor, and weapon system into the robot
- Performed rapid pit repairs between matches under strict time limits, improvising with available materials to restore functionality and keep the robot in competition

Technical Skills

Programming Languages: Bash (Intermediate), C++ (Advanced), Embedded C (Intermediate), Full Stack Web (Intermediate), Git (Advanced), JavaScript (Intermediate), LaTeX (Advanced), Python (Advanced)

Business Tools: Agile (Advanced), Google Suite (Advanced), Jira (Intermediate), Microsoft Office (Advanced), Slack (Advanced), Trello (Intermediate)

Certifications: CompTIA A+

Certifications In Progress: Cisco Certified Support Technician, CompTIA Network+, CompTIA Security+

Soft Skills

Adaptability, Communication, Problem Solving, Resourcefulness, Resilience, Strategic Thinking, Team Leadership

Retail Sales Experience: 7-Eleven, Ashley HomeStore, Home Depot