

# DANIEL GLICK

☎ 559-731-1278 ✉ [diglick@ucsc.edu](mailto:diglick@ucsc.edu) [in linkedin.com/in/daniel-glick314](https://www.linkedin.com/in/daniel-glick314) [github.com/dglick314](https://github.com/dglick314)

## Education

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### University of California, Santa Cruz

*Robotics Engineering, B.S.*

**Expected Graduation: June 2025**

*Santa Cruz, CA*

**Key coursework** - RISC-V & C, Embedded C Programming, Data Structures & C++ Programming, Linear Algebra, Differential Equations & MATLAB, Vector Calculus

## Experience

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### Slugbotics - UC Santa Cruz Club

*Business Administrator & Financial Strategist*

**Sep. 2020 – May 2023**

*Santa Cruz, CA*

- Automated expense handling, introducing scripted spreadsheets to streamline accounting
- Restructured and updated team policies, position responsibilities, recruiting strategies, and task prioritization
- Streamlined productivity through introducing document template system
- Organized and lead outreach events to teach students on advanced Solidworks and 3D Printing
- Engineering Projects: MATE underwater robotics, Combat robotics, autonomous miniature racing

### Pinpoint AVL

*Software Developer*

**Feb. 2022 – May 2022**

*Santa Cruz, CA*

- Developed code for bus tracking, utilizing I2C, GPS tracking, and other propriety methods
- Conducted Market Analysis on California, identifying competitors, sales market, and further details

### Advanced BioTech LLC

*Research Assistant*

**Feb. 2020 – May 2020**

*Visalia, CA*

- Data Analysis of product effectiveness for company products
- Utilized Javascript in Web Design for production website, particularly site mapping & navigation on front page
- Conciliated content in digestible format tailored to individual local and international clients

## Projects

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### MATE Underwater Robotics | *Qt, OpenCV, C++, Solidworks, Autodesk Eagle*

**Sep. 2020 - May 2023**

- Developed system utilizing OpenCV & Qt to recognize changes in color of PVC underwater, including challenges with light refractions, color correction, and image stabilization
- Assembled finalized robot, navigating difficult situations such as imperfect waterproofing
- Served as a robotics engineer (working throughout mechanical, electrical, and systems sub-teams) debugging and solving issues

### Combat Robotics | *CAD*

**Jan. 2022 - May 2022**

- Assembled 3LB Combat Robot for UCLA Combat Robotics competition
- Performed Pit Repair between matches, utilizing critical thinking and ingenuity to repair damage with basic materials with whilst under immense time pressure
- Fully Designed and fabricated 1LB combat robot for competition in NorCal Smackdown at UC Santa Cruz

### Autoslug | *Altium, I2C, C*

**May 2023 - Present**

- Electrical system for interconnecting electrical layers
- Designed buck converter circuits for modular electrical control
- Developed communications between hardware layers

## Technical Skills

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**Languages:** C++, C#, Embedded C, Java, Python, RISC-V, MIPS, Full Stack Web, JS, MATLAB, Git, Bash, LaTeX

**Design:** Blender, CAD, EDA, Adobe Creative Cloud

**Business Products:** Microsoft Office, Google Suite, Jira, Slack, Trello

**Machining and Shop:** Soldering (throughhole and SMD), Common Bench-Top equipment (Variable Power Supplies, Signal Generators, Multimeters, Oscilloscopes), Hand & Power Tools, Mig & Tig Welding