

# Sean Michael Manger

📍 Watsonville, CA ✉ seanmanger22@gmail.com 🌐 Personal Site ☎ 831-269-1918 💬 Sean Manger 📡 SeanM25

## Engineering Projects

- “Watch Your Step” platformer game with Verilog and Basys 3 FPGA
- Power Line Inspection with UAVs for UCSC
- Flight Sim in Python
- Simulated Toaster Oven using C and STM-32 Nucleo MCU
- Ground Bouce PCB

Please See my Personal Website linked above for further detail

## Technical Skills and Licenses

- **Programming Languages/Tools:** Python, Embedded C and C++, Verilog HDL, RISC-V Assembly, TCL, HTML/CSS, LaTeX, Linux
- **Engineering Software:** Vivado, OnShape CAD, MATLAB, Simulink, Control Systems Toolbox, Cadence PSpice, Altium Designer
- **Licenses:** FAA sUAS License
- **Misc Skills:** Soldering, Test Equipment, Sewing, Power and Hand Tools

## Education

<b>University of California, Santa Cruz</b> Pursuing BS in Electrical Engineering	Expected: Mar. 2026
<b>Cabrillo College, Aptos, CA</b> AS Computer Science, AS Physics, AS Mathematics, AA Liberal Arts and Science	Aug. 2019 - Dec. 2023

◦ Current GPA: 3.61

◦ Relevant Coursework: Feedback Control Systems, UAV Theory and Controls, Analog Electronics, Logic Design, High-Speed Digital Design, Signals and Systems, Properties of Materials, Embedded C Programming

◦ Dean’s List Fall 2024

## Experience

<b>Hardware Systems Collective Lab Engineer and Undergraduate Researcher</b> University of California	Santa Cruz, CA Jul. 2025 – Present
<b>Baskin Engineering Course Reader</b> University of California	Santa Cruz, CA Sept. 2024 – Present
◦ Course Reader for <b>Logic Design, Intro to Electronic Circuits, Properties of Materials</b> ◦ Grade Homeworks, Midterms, and Final Exams as needed	

**Physics Learning Center & STEM Center Tutor**  
Cabrillo College

- I assisted students with any Physics or other STEM subject related questions
- I checked off weekly conceptual Physics quizzes

## Hobbies and Interests

- **Technical Interests:** Controls, Embedded Systems, Sensors, Robotics, Logic Design, Hardware, Software, Aircraft
- **Personal Hobbies:** Jogging, Reading, Sewing, Fishing

## Languages

Russian	Elementary Level
Spanish	Limited Working Level