MADDUX MADAYAG

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EDUCATION

University of California, San Diego (UCSD)   La Jolla, CA
B.S. ECE: Computer Engineering, GPA: 3.81   Expected June 2026
- *Relevant Coursework:* Data Structures and Object-Oriented Design (OOD), Programming Languages, Analog Design
- *Awards:* Provost Honors

EXPERIENCE

Avionics Engineer - Hayla   La Jolla, CA
Students for the Exploration and Development of Space (SEDS) @ UCSD   October 2023 – Present
- Recreated ESP32-Wroom-32UE and 1U schematic and board design to be utilized for other components of the rocket such as the data acquisition board
- Learning to integrate components and microcontrollers into PCBs

Workshop Officer   La Jolla, CA
Keyboard Club @ UCSD   October 2023 – Present
- With 6 other officers, taught 40+ students how to build their own keyboard from scratch through SMD/through-hole soldering and operating CNC wood and laser engraving machines through hosting weekly workshops and sessions

Self-Taught Animator   Davis, CA
Self-Employed Animation Business   2021 – 2023
- Collaborated with Steam users to create animations and rig images containing characters that captured the clients' vision and design intent
- Design animated videos and animations for school projects; developing expertise in Adobe After Effects and Photoshop
- Devoted 40+ hours gaining expertise in storyboarding, digital editing, video animation, and sequences, acquiring a profound grasp of the design process

Computer Builder   Davis, CA
4-H Computer Project   2018 – 2022
- Dedicated 40 hours deconstructing and rebuilding 20+ computers for donations in Yolo County
- Educated and helped members with building and taking apart computers and lead meetings to assist the project leader

PROJECTS

C-13X Hand Wired Mechanical Keyboard   Davis, CA
Independent   July 2023
- Created a custom mechanical keyboard that required understanding soldering diodes, matrix and controller wiring, and coding firmware in C to further my hobbyist creativity

IEEE @ UCSD Winter Quarterly Project   La Jolla, CA
Team Member   January – March 2023
- Collaboratively engineered and fabricated a fully functional bluetooth-controlled RC car

AWARDS

- Banatao Family Scholarship
- MaryAnn Wegner Memorial 4-H Scholarship
- Yolo County 4-H Leaders Council Scholarship

SKILLS

- Java
- C
- Python
- Matlab
- GitHub
- Soldering
- PSpice
- CNC machining
- Fusion 360