

DANIELA MOLINA

<https://danifmolina.github.io/>

San Diego, CA

Skilled **Software Developer** with 4 years of experience in embedded development for unmanned aircraft vehicles and scripting automated tests for the system, with a proven track record of delivering high-quality software solutions. Recently transitioned focus to web development, actively expanding expertise in modern web technologies such as React and Next.js, and seeking opportunities to contribute to dynamic, user-facing projects.

EDUCATION:

University of California, San Diego

- Graduation year: 2021
- Bachelor of Science in Computer Science

SKILLS:

- **Technologies:** C, Python, Java, HTML/CSS, ReactJS, Next.js, JavaScript/TypeScript
- **Version Control:** Git (GitLab/GitHub), SVN

EXPERIENCE:

General Atomics Aeronautical Systems | Software Developer II | Aug 2021 - Present

- Orchestrated end-to-end software development processes within the waterfall methodology, from initial requirements and documentation gathering to coding, merging, and testing, ensuring seamless integration of new customer-desired functionalities.
- Engineered and implemented an automated testing tool to monitor MIL-STD-1553 data traffic via an existing API, utilizing a blend of C and Python to ensure smooth functionality.
- Initiated the development of Python scripts tailored to automate critical software regression tests, significantly reducing manual effort and enhancing testing efficiency.
- Leveraged VAPS software expertise to design dynamic real-time graphical Human-Machine Interfaces (HMIs) for aircraft's Attitude Director Indicator (ADI), enhancing user experience and operational effectiveness.

General Atomics Aeronautical Systems | Software Developer Intern | June 2020 - Sep 2020

- Elevated the robustness, portability, and reusability of an existing automated testing tool framework software, optimizing it for testing unmanned aircraft vehicles across Linux and PPC operating systems.

PROJECTS:

RecRoom Full-Stack Website Development | May 2025 - Present

- Designing and building a dynamic web application from scratch using Next.js, React and Node.js, implementing responsive front-end interfaces and developing RESTful APIs and backend logic with integrated database support for full CRUD functionality.

Growio Application | UCSD Software Engineering | April 2019 - June 2019

- Collaborated with a front-end team in the development of a user interactive application aimed at assisting users in plant management and identification, utilizing the Flutter SDK and Dart programming language to achieve project objectives.

AWARDS AND ACTIVITIES:

General Atomics Aeronautical Systems | Innovate & Improve Spotlight Award | August 2023

- For pioneering the creation of a novel capability for automated test and verification of system communication with hardware payloads.