

Dennis Sarsozo

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Active Top Secret (TS) Security Clearance | NASA & DoD Satellite Missions | Commissioning USSF 2027 | Seeking Summer Internship

EDUCATION

University of Hawai'i Manoa, College of Engineering **Expected Graduation: May 2027**

Bachelor of Science Computer Engineering

Honolulu, Hawaii

- GPA: 3.33 / 4.0
- Air Force ROTC Detachment 175 – Director of Operations (A3), overseeing training execution for 90+ cadets.

North Carolina State University, Poole College of Management

Class of 2021

B.S. Business Administration Information Technology & Computer Science Minor

Raleigh, NC

- GPA: 3.86 / 4.0
- Coursework: Data Structures & Algorithms, Operating Systems, C# Dev, Python Web Dev, Database Management

WORK EXPERIENCE

Hawaii Space Flight Laboratory (HSFL)

Mar 2025 – Present

CubeSat Satellite Software Engineer Intern

Honolulu, HI

- Leading embedded flight software development across two concurrent NASA and DoD UNP AFRL-funded CubeSat missions.
- Developed embedded C/C++ and Python flight software integrating infrared spectrometer and FLIR thermal camera payloads; achieved wireless HD thermal imaging at 50+ ft range and 8 FPS streaming.
- Integrating NASA's F-Prime flight software framework (flight-proven on Mars Ingenuity) onto Artemis CubeSat kit for a DoD AFRL dual-satellite polar orbit constellation targeting 2029 launch.
- Performed JTAG flashing, PDU hardware troubleshooting, FPGA validation for SatNOGS-COMMS radio, and extended thermal platform to aerial drones for wildfire detection.
- Software team lead driving Agile practices and mentoring junior engineers; operates with RF environment awareness and ITAR-sensitive data handling.

Prometheus Group

Jun 2020 – Dec 2022

Software Engineer - Mobile

Raleigh, NC

- Developed front-end and back-end features using Xamarin, C#, Objective C, C++, Java, and SAP ABAP across Android, iOS, and Windows platforms.
- Integrated OAuth2 SSO logins into our Mobile V4 SAP Plant Maintenance app and between Operator Rounds.
- Created GitLab CI/CD pipelines and built mobile barcode scanning feature automating SAP inventory transactions.

NCSU Office of Information Technology

Nov 2019 – Dec 2020

Network Operations / Information Security Intern (Project Management Lite Internship)

Raleigh, NC

- Scripted Palo Alto firewall provisioning in Python and built a PHP web app aggregating Google Calendar data for the Network Operations Center.
- Monitored 200+ suspicious Active Directory logins via Splunk and Cisco Stealthwatch; supported 40,000-user campus network.

SKILLS

Software: Python, C/C++, Java, C#, JavaScript/React, SQL, Git, Arduino, FPGA, NASA F-Prime, Embedded Systems, Linux, MATLAB.

Tech: CubeSat Flight Software, JTAG Debugging, RF Systems, CI/CD Pipelines, Agile/Scrum, Networking, Cybersecurity.