

Daniel Brown

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🌐 <https://www.linkedin.com/in/daniel-s-brown/>

Professional Experience

Associate System Engineer

Jun 2023 – present | Anaheim, California

L3 Harris 🔗

Collaborated with NAVY Special Projects customer as part of the Flight Test and Instrumentation Program.

Managed full development cycle of three key projects:

- Underwater Tracking System: Supported design and implementation of an underwater tracking system, overseeing concept of operations (CONOPS) to validation testing.
- Phased Array Antenna Tracking System: Led whitepaper development between two competing space sector companies for a Phased Array Antenna, provided baseline SWaP-C requirements and high-level CONOPS.
- Shipboard Communication System: Redlined outdated documentation, updated requirements in DOORS, replaced obsolete cables and parts, and performed trade studies.

Additional Projects:

- Transitioned legacy system level diagram, cabling, physical interfaces, logical interfaces, BOM, and cybersecurity requirements into the MBSE software CAMEO system modeler.
- Collaborated with cybersecurity engineers to complete STIGs, ACAS scans, and hardening of a Range Safety System.

Wildfire Behavior Modeling Intern @ WIFIRE Lab

Aug 2022 – Jun 2023

San Diego Supercomputer Center 🔗

- Assisted in the investigation of wildfire point of ignition through local radio channel and twitter.
- Collaborated with fire departments in CA to provide alerts and models using the Firemap GIS tool.

Education

Masters of Science, Data Science

Jan 2024 – Expected 2026

University of California, Berkeley

Research Design and Applications for Data and Analysis, Data Science Programming, Statistics for Data Science

Bachelors of Science, Mechanical Engineering

Aug 2019 – Jun 2023

University of California, San Diego

Publications

A 3D printed Embouchure-Assistive Device for Musicians with

15 Dec 2023

Facial Palsy 🔗

Biomedical Engineering Horizons (BME Horizons)

Collaborated with Dr. Jacqueline Greene, a reconstructive face surgeon, to develop 3D printed assistive device for post-surgery musical rehabilitation, using rapid prototyping, facial scanning, and Finite Element Analysis

Skills

- SQL, Python, Data Structures and Algorithms, Bayesian Statistics, R, Matlab, Simulink, MBSE CAMEO