Dillon B. Allen

U.S. Citizen

Visalia, California

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Objective: To apply my knowledge of data analysis, statistical methods and mathematical analysis to cutting edge engineering problems.

Technical Skills

- Mathematical Modeling and AI Modeling
- Kalman Filter and Smoothing Algorithms
- Estimation Algorithms
- Data Driven Design

- Simulation Design
- Statistical and Machine Learning
- Stochastic Models, Monte Carlo Methods
- MATLAB / C++ / Modern Fortran / Python / C

Engineering Experience

College of the Sequoias – Visalia, CA   **Aug 2023 – Present**
Engineering Professor
- Teach MATLAB, Computer Architecture, Discrete Mathematics, Introduction to Engineering, Engineering Graphics (SolidWorks), Engineering Statics, Material Science, Engineering Circuits.

John's Hopkins Applied Physics Lab – Laurel, MD   **May 2023 – Aug 2024**
ATLAS Intern
- Conduct statistical analyses on big data sets to develop efficient compression algorithms.
- Simulation design and analysis in AFSIM.
- Developed probabilistic models for operational usage in MATLAB and Python.

Lockheed Martin, Space – Sunnyvale, CA   **Jan 2022 – Jan 2023**
Guidance, Navigation and Control Engineer
- Conduct statistical analyses on big data sets to draw design conclusions
- Present analyses and design conclusions to chief engineers and stakeholders
- Monte Carlo Probabilistic Simulations for Systems Engineering Work
- Create Mathematical Models for IRAD Studies
- Implement/design clustering and discrimination algorithms
- Simulation Development for GNC IRADs

SAIC – Oxnard, CA   **July 2019 – July 2020**
Electrical Engineer – *High Power Electronic Attack Technique Radiation Group*
- Requirement Analysis on Next Generation Jammer – Mid Band.
- Developed software to automate test point analysis and report creation.
- Wrote Detailed Methods of Test reports and supervised test runs.
- Generated Verification and Validation Matrices.
- Implemented custom NI VISA scripts for instrumentation and data collection.

Education

Fresno State University   **Est. May 2026**
M.S. Mathematics

Johns Hopkins University, Whiting College of Engineering   **Dec 2021**
M.S. Space Systems Engineering

University of California at Santa Barbara, College of Letters and Science   **June 2017**
B.S. Physics