Stanford



Caden Davis

Masters Student in Electrical Engineering, admitted Autumn 2025

Resume available Online

Bio

BIO

I am a M.S. student in the department of Electrical Engineering at Stanford. I graduated with my B.S. from UCLA in Spring 2025. There, I worked under Professor Ian Roberts in the UCLA Wireless Lab on mmWave beamforming systems. During the summers, I interned at Anduril with their Electronic Warfare DSP team and at Apple with their Cellular RF Software team. My interests span Optimization, Statistical Signal Processing, and Wireless Communications.

HONORS AND AWARDS

- Departmental Valedictorian, UCLA Electrical & Computer Engineering Department (May 2025)
- Integrated Circuits and Systems Lab Alumni Scholar, UCLA Integrated Circuits and Systems Lab (October 2024)
- Boeing Scholar, Boeing (October 2022)

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, University of California, Los Angeles (UCLA) , Electrical Engineering (2025)

LINKS

- LinkedIn: https://www.linkedin.com/in/caden-davis/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Previously, I developed a platform for joint communications and sensing (JCAS) with mmWave beamforming systems as part of the UCLA Wireless Lab under Professor Ian Roberts. Then, as a DSP engineer intern at Anduril, I worked to enhance detectors for frequency-hopping OFDM and chirp-spread-spectrum signals. From these experiences, I found a strong interest in optimization methods and statistical inference techniques for signal processing systems, mainly wireless communications and radar.

Professional

WORK EXPERIENCE

- Cellular RF Software Intern - Apple (6/16/2025 - 9/5/2025)
- DSP and Wireless Communications Intern - Anduril (6/10/2024 - 9/13/2024)
- Electrical Hardware Intern - Anduril (6/12/2023 - 9/8/2023)
- Medical Camera Imaging Intern - Viseon (6/14/2021 - 9/10/2021)

Publications

PUBLICATIONS

- **LocoMote: AI-driven Sensor Tags for Fine-Grained Undersea Localization and Sensing.** *IEEE sensors journal*
  Saha, S. S., Davis, C., Sandha, S. S., Park, J., Geronimo, J., Garcia, L. A., Srivastava, M.
  2024; 24 (10): 16999-17018