

EDUCATION

Stanford University, Stanford, CA*Expected Graduation: June 2027*

- BS in Electrical Engineering; Minor in Human Rights
- MS Candidate in Materials Science and Engineering
- Defense Innovation Unit (DIU) Commercialization Fellow, Center for International Security and Cooperation Honors Student
- Relevant Coursework: Signal Processing and Linear Systems; Systems and Circuits; Robotic Autonomy; Digital System Design; Hacking for Defense; Machine Learning for Engineering; Autonomous Implantable Systems; Semiconductor Devices for Energy; RF Design for MRI Machines; Digital Image Processing; Special Topics on Semiconductor Materials; Matrix Theory

University of Oxford, Oxford, United Kingdom*January 2024 - March 2024*

- Magdalen College; Stanford in Oxford; Tutorial in Medical Anthropology

TECHNICAL

Research Assistant, Molecular Imaging Instrumentation Lab*June 2024 - October 2025*

- Designing MRI and PET machines that perform full body scans and are transportable for use in low-access regions
- Simulating the machines to verify accuracy of field lines within full body scans via Maxwell equations
- Developing signal processing algorithms to enhance image resolution and reduce noise reading, optimizing performance in resource-constrained environments with the aim to shorten machine operation times for patients

Consultant, Gravity Medical Technology*January 2025 - January 2026*

- Consulted a medical device company focused on stroke accessibility in India by creating an implementation roadmap to understand the populations most impacted and optimizing treatment center placements for maximum impact

Research Assistant, Artificial Retina Project*May 2024 - October 2025*

- Developing an FPGA low-latency gaze display to track eye movement, ensuring implant accuracy by two microseconds—which allows visually impaired patients to see the world in a real-time display

Designer and Developer, PAWS: Pediatric Apple Watch Study*January 2023 - June 2023*

- Built an app with Apple utilizing SWIFT that tracks and records heart arrhythmia in children via apple watches

Skills: Python, MatLab, Swift, Fusion 360, C++, Verilog, Revit, OpenGL, Power Systems, Digital System Design, Digital Image Processing; Robotic Operating Systems (ROS), XFtdt, Power Systems, EM Simulations, Sequel; Figma, Power Systems, Final Cut Pro

PROFESSIONAL

Materials Processing and Engineering Intern, The Boeing Company*June 2025 - September 2025*

- Testing material compositions of plane components via etching, XRF, IC, ICP, and FTIR to verify structural and chemical integrity and utilizing additive manufacturing to help streamline testing processes
- Designed data algorithm to streamline team materials processing requests across groups in Washington

Co-Founder & Chief Design Officer, SupplyShield (Sponsored by DIU)*May 2025 - October 2025*

- Building a supply chain intelligence platform mapping critical mineral flows from mines to consumers, enabling primes to identify vulnerability before they become critical risks or increasing buying power via an algorithm we designed

Research Fellow at Hoover Institute, Biostrategies and Leadership*July 2024 - January 2025*

- Built a roadmap of biotechnology innovation within the technology industry, specifically semiconductors and data storage systems, under Dr. Drew Endy to guide long-term investments from government and private firms

Research Assistant, CREDO and Hoover Institute*July 2023 - February 2024*

- Designing a program that eliminates the Carnegie Unit in schools across the nation and centers around course mastery
- Utilizing data analytics and structures to convey results with board members, urging for stronger educational equity

Development Team Intern, Witness to Mass Incarceration*June 2022 - October 2022*

- Developed a year long individual donor campaign that will provide consistent funding for incarcerated communities—leading to impactful project that reached over 300 donors with long-term growth

President and Founder, Initi8 Nonprofit*September 2019 - September 2022*

- Facilitated over 150 weekly free tutoring sessions, managed 70 volunteers, and established 3 tutoring program for Title 1 Schools
- Worked with local politicians to increase funding for after-school programs to increase educational equality across Sacramento

LEADERSHIP

Board Member, Stanford Library Systems*November 2024 - Present***Team Strategist and Chief of Professional Development, REM Consulting,***September 2022 - Present*

- Work with local businesses to increase profits and produce weekly guides that increases engagement and builds long-term success

Director of Technology, Sustainability, and Community, Stanford FashionX*December 2021 - Present*

- Set sustainability guidelines in club affairs to produce neutral carbon footprint—offsetting 90% of our emissions