

Jonathan Mi

San Diego, CA • (734) 394-9735 • jomi@ucsd.edu • [jonathanmi6.github.io](https://github.com/jonathanmi6)

Education

University of California San Diego

Aug 2019 – Jun 2023

B.S. Electrical Engineer | Minor: Economics

GPA: 3.94

Relevant Course Work | Digital IC Design, Active Circuit Design, Linear Control Theory, Power Systems

Work Experience

Electrical Design Engineer

Shield AI • San Diego, CA

Jan 2023 – Present

- Utilize Altium Designer and SPICE modeling tools to prototyping and design complex electrical circuit board assemblies for autonomous drones and fixed wing UAV
- Conduct design review and verification of complex analog and digital circuit boards
- Create production test platforms for product verification

Electrical Design and Systems Engineering Intern

Boeing • Seal Beach, CA

Jun 2022 – Present

- Actively respond to flight controls and proximity sensing systems service requests from Boeing airplane operators across all Boeing Commercial Airplane models and Military Derivatives
- Directly engage with operators to identify and diagnose aircraft issues including time sensitive Aircraft on Ground (AOG) situations
- Work with design and quality engineers to analyze and propose solutions to electrical manufacturing discrepancies and safety issues to be published in service letters and bulletins

Robotics Research Intern

Jun 2021 – Oct 2021

Johns Hopkins University Terradynamics Lab • Baltimore, MA

- Designed two multi-functional legged robots capable of traversing complex terrain using CAD, 3D printing, laser cutting, and Python
- Performed terrain traversal probability experimentation using Matlab and Python
- First author of research paper presented at 2022 IEEE ICRA Conference and earned Outstanding Locomotion Award Finalist award

Computer Vision Intern

Jan 2020 – Jun 2021

UCSD Video Processing Lab • San Diego, CA

- Collected data from test subjects and performed data analysis on human eye motion
- Developed computer vision systems using Matlab and Python to mimic human eye motion
- Utilized CAD, 3D printing, and laser cutting to produce low-cost computer vision test stands
- Co-author of research paper presented at the 2021 ISOC Design Conference

Leadership, Extra Curriculars

Technical Mentor – First Robotics Team 3647 & 6901

Jan 2020 – Present

- Create and present lesson plans to teach design, CAD, CAM, and electrical skills to high school students

Technical Lead – First Robotics Team 3647

Jun 2016 – Jun 2019

- Led both CAD and build teams, consisting of over twenty people of varying skill levels

Certifications

Certified SOLIDWORKS Professional (CSWP – Mechanical Design)

Oct 2019

Dassault Systems | Credential ID: C-M34T5WK7EN

Technical Skills

- **Electrical Design:** Altium, KiCAD, Cadence (gpd045 technology), LTSpice, PSpice
- **Computer-Aided Design (CAD):** Solidworks, Onshape
- **Computer-Aided Manufacturing (CAM):** HSMWorks, Fusion 360 CAM
- **Machining:** Manual Mill/Lathe, CNC Mill and Router, 3D Printing, Laser Cutting
- **Programming:** Matlab, Python, Java, C++, Arduino