

Nicholas Alan Maley

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Personal Statement

Highly experienced with creating RC robots in both personal and professional environments. Specializing in interfacing various peripherals, making custom PCBs and utilizing microcontrollers for desired functionality.

Skills

Mechatronics, PCB Design and Fabrication, Electronic Troubleshooting, Electrical Design, Digital and Analog Signal Processing, Datasheet Interpretation, Oscilloscopes, Computer Vision, KiCad, Microcontrollers, C/C++

Experience

Thorsson & Associates

May, 2025 - Present

Robot Engineer [Freelance] - Mechatronics

- Brought in to take over a robot project that was commissioned for a short film, completing arm joint mechanics and electronics integration to create a functional two-person operated prop.
- Diagnosed and solved several issues with the RC system that prevented ideal function.
- Focus on clean cable management and documentation for easy identification and troubleshooting.

Dept. of Veterans Affairs

August, 2022 - June, 2023

Design Engineer [Senior Capstone Project]

- Designed an audio system to be used by employees and clients in loud office spaces.
- Made custom interfacing for Bluetooth and infrared products.
- Created technical reports and timelines to keep the project on track and within budget.

O'Logic Robotics

July, 2017 - August, 2017

Intern [35-50 hours/week]

- Assembled and soldered an industrial testing rig to mass verify PCB integrity.
- Populated dense circuit boards and ran testing, ensuring circuit boards were fully functional.
- Prototyped and designed a wireless cough surveillance device for an asthma attack prevention application.

Education

California Polytechnic State University

Bachelor of Science: Electrical Engineering

September, 2018 - June, 2023

San Luis Obispo