# CHRISTIAN MILLAR

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## EDUCATION

**University of California, Los Angeles**                                December 2024
Henry Samueli School of Engineering & Applied Science
Bachelor of Science (B.S.), Mechanical Engineering (3.48 GPA)

## TECHNICAL SKILLS

**Applications:**            SIMULINK, SIMULINK State Flow, SOLIDWORKS, MATLAB, Microsoft Office Suite
**Programming Languages:**   Python, C++, MATLAB
**Relevant Coursework:**     Robotic Controls, Autonomous Systems, Computational Electromagnetics, Fluid Mechanics, Electronic Circuit Design, Thermodynamics, Strength of Materials, Materials Science, Data Modeling, Mechanisms & Mechanical Systems

## RELEVANT EXPERIENCE

**Autonomous Food Delivery Robot Team Lead**                          January 2024 – Present
University of California, Los Angeles

- Designed and developed the entire autonomous system for a food delivery robot using SIMULINK and SIMULINK State Flow
- Formulated a logic program with integration of multiple hardware components into the software, including infrared sensors, servo motors, PID motor controllers, and ultrasonic sensing
- Implemented electronics design including wiring, soldering, and integration of components with software
- Achieved the endpoint of detecting objects, following set routes, picking up and delivering food objects, traversing inclined paths, and ultimately returning to its home location

**Robotic Arm Lead**                                                  Summer 2023
University of California, Los Angeles

- Designed and developed the robotic arms on a 100+ part robotic manipulator, including initial ideation and relevant materials selections
- Calculated necessary torque and stress equations required to ensure proper movement of the robotic arm without failure
- Produced engineering drawings and CAD design of the robot for machining and manufacturing

## OTHER EXPERIENCE

**Law Office Assistant**                                              2017 – 2021
The Law Offices of David Kashani, Daniel Ditlof, and Steve Friedman

**Personal Projects**                                                2025 - Present
**Custom Built RC Submersible**
- Designing and fabricating a remotely operated underwater vehicle (ROV) featuring Arduino-based electronics, IR remote control, custom propulsion system, and buoyancy control.

## EXTRACURRICULARS

Eagle Scout (Boy Scouts of America), UCLA Sigma Eta Pi Entrepreneurship Fraternity, avid sports enthusiast, amateur film critic