

# Corey A. Cochran-Lepiz

ELECTRICAL AND COMPUTER ENGINEER

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## Education

### Olin College of Engineering

Boston, Massachusetts

CANDIDATE FOR B.S. IN ELECTRICAL AND COMPUTER ENGINEERING

May 2021

- Recipient of 4-year, 50% Olin Merit Scholarship - 3.6

## Experience

### Olin Electric Motorsports - FSAE Electric

Boston, Massachusetts

ELECTRICAL DESIGN LEAD

June 2018 - Present

- Leads a team of students to design, fabricate, and test an electric race car for the Formula SAE competition.
- Responsible for system level architecture design decisions and implementation of the vehicle.
- In charge of ensuring good documentation use and availability to all members on the team.

ELECTRICAL ENGINEER

September 2017-June 2018

- Designed and tested the PCB design and embedded firmware for the board responsible for the throttle.
- Developed on the fly troubleshooting proficiency with PCB prototyping.
- Worked with mechanical engineers on tightly integrated projects such as the dashboard

### Olin Rocketry

Boston, Massachusetts

ELECTRICAL ENGINEER

Jan. 2018 - Present

- Founded the avionics subteam to design a flight computer responsible for telemetry and apogee detection.
- Worked under an accelerated timeline under strict design requirements.

### Texas Panic Room

Austin, Texas

SOFTWARE DEVELOPER INTERN

May 2015 - Feb. 2016

- Designed, coded, and installed Arduino-based electronics for new escape room.
- Performed preventative maintenance of electronics after installation to ensure long-term functionality.

### AISD Performing Arts Center

Austin, Texas

STAGE HAND

Mar. 2015 - Dec 2017

- Operated in a high stakes environment responsible for ensuring consistently smooth performances
- Stage and event work: Sound tech, lighting tech, carpentry, box office, house and event management

## Projects

- 2018 **Facial Recognition:** Developed a facial recognition program in Matlab using Bayesian statistics.
- 2018 **Data Visualization:** Created an in depth data visaulition of a set of jobs in the U.S.
- 2018 **Coffee Bar:** Run a coffee bar serving to teach people how to make milk-based espresso drinks.
- 2017 **Trip to Titan:** Programmed a simulation of a flight to Titan for a Modeling and Simulation course.
- 2017 **PCB Prototyping:** Developed PCBs by hand for personal Arduino projects.

## Skills

**Software** Kicad, Confluence, Solidworks, Adobe Illustrator, Google Sheets, Git

**Languages** Python, C, MATLAB, Arduino, LINUX command line, 𐀀𐀁𐀂, Spanish

**Proficiencies** CAD, Rapid Prototyping, Iterative Design, User Oriented Design, Graphic Design, Data Visualization