Corey A. Cochran-Lepiz

ELECTRICAL AND COMPUTER ENGINEER

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Education

Olin College of Engineering *Needham, Massachusetts*
CANDIDATE FOR B.S. IN ELECTRICAL AND COMPUTER ENGINEERING *May 2021*

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

Experience

Olin Electric Motorsports - FSAE Electric *Needham, Massachusetts*
ELECTRICAL DESIGN LEAD *June 2018 - Present*

- Leading 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 *Needham, 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 visaultion of a set of jobs in the U.S.
2018	**Coffee Bar**:	Runs 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, LaTeX, Spanish
Proficiencies	CAD, Rapid Prototyping, Iterative Design, User Oriented Design, Graphic Design, Data Visualization