

# Richard Dominguez

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## EDUCATION

### *University of California, Merced*

- Bachelor of Science, Mechanical Engineering

Dec 2020

## INTERNSHIP AND EMPLOYMENT HISTORY

### **Dasher, Food Deliverer**

*Door Dash*

- Handle and deliver food to clients, efficiently.

Feb 2020 – Present

### **Restoration Hangar Intern**

*Castle Air Museum – Atwater, CA*

Sept 2019 – Dec 2019

- Sanded, painted, and welded various panels on a B-24 Plane.
- Assisted in the restoration of a radio-controlled drone.

### **Machine Shop Student**

*University of California, Merced – Merced, CA*

Jun 2019 – Aug 2019

- Practiced production quality standards.
- Used heavy machinery under supervision.
- Manufactured small items.

### **Residential Assistant**

*University of California, Merced – Merced, CA*

Jul 2018

- Supervised and provided mentorship to eighty high school students.
- Collaborated with a team of seven to develop and implement social, and recreational programs in a timely manner.

## ORGANIZATIONS

### **Theta Tau, Professional Engineering Fraternity**

Feb 2018 - Present

*Historian, Research and Development Chair*

- Assisted in the assembly of a bicycle into an electric bicycle.
- Collaborated in constructing garden boxes dedicated to Merced's local children's center, and documented construction progress.
- Photographed, and recorded, at important events.

### **The American Institute of Aeronautics and Astronautics**

Apr 2017 – May 2019

*Theoretical Analysis Team Lead*

- Provide an analysis of how a pulsejet's efficiency is affected by volcanic ash.
- Used efficiency equation to relate theoretical, and experimental, thrust and heat values.

### **Engineering Service Learning**

Jan 2018 – May 2018

*Qualitative Team Member*

- Collected user data through observation and Qualtrics software to implement a better user interface.
- Collaborated in writing Preliminary Design Review and Final Design Review.

### **Society of Hispanic Professional Engineers**

Aug 2015 – Dec 2016

*Active Member*

- Used my personal experience to promote STEM and guide eight high school students in constructing a popsicle-stick bridge.

## SKILLS AND QUALIFICATION

### **Software**

- MATLAB – Proficient
- Simulink – Proficient
- SolidWorks – Proficient
- Fusion 360 – Proficient
- Microsoft Tools - Proficient
- COMSOL – Beginner

### **OS Experience**

- Windows
- Ubuntu 18.04

### **Foreign Language**

- Spanish – Fluent