

# EDUARDO ENGINEER

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## OBJECTIVE

Seeking a full-time, entry level position in the field of Mechanical Engineering

## EDUCATION

### California State University, Fresno (Fresno State)

B.S., Mechanical Engineering, May 20xx, GPA: 3.17

## RELATED COURSEWORK

Fluid Mechanics, Machine Design, Thermodynamics, Product Design, Statistics and Experimentation, and Energy Systems Design

## PROJECTS

### Robotic Arm Project (DESIGNED ROBOTIC ARM TO ROTATE TO SELECT CANDY)

- Programmed Arduino microcontroller to control all movements of two servo motors and a light sensor
- Modeled the arm in SolidWorks to determine the appropriate dimensions and construction materials
- Fabricated the arm using lathes and milling machines. Applied TIG welding techniques to complete project

### Formula Society of Automotive Engineers (SAE)

*Team Leader of 4 person suspension team*

- Analyzed the amount of friction between the tires and the road to provide steering stability
- Minimized body roll by 75% by developing process to transfer weight during cornering

*Contributor to research and development of new automobile design*

- Investigated the viability of a multiple exterior designs resulting in an improvement in wind drag
- Coordinated seminars of professional engineers to provide input to student designs

*Member of the Race Team*

- Responsible for troubleshooting technical problems on the spot car during race day
- Served as the suspension expert, armed with spare parts and a back-up suspension plan

### Mechatronics Club (Design team member for robotic bartender)

- Developed the microcontroller control for the light and sound system using a PIC32
- Investigated and specified windshield wiper pumps to be used for beverage dispensing

## INTERNSHIP EXPERIENCE

### TETER, Fresno, CA

*Mechanical Engineering Intern, May 20xx – August 20xx*

- Designed and specified detail parts for Fresno Unified School District central kitchen project
- Calculated preliminary & final performance evaluations on systems under supervision of project engineer
- Corresponded with vendors to ensure proper orders and materials would be present on site when needed
- Performed stress analysis with classical and finite element methods

## LEADERSHIP EXPERIENCE

### Formula Society of Automotive Engineers (SAE), Fresno State

*Vice President of Marketing (1 year) and Member (3 years)*

- Scheduled and organized 25 student volunteers to aid with the Career & Internship Fair
- Coordinated extensive poster and email campaign to raise awareness about SAE resulting in an 87.5% increase in membership from 40 members to 75 members
- Participated as a member of the Executive Board to help make decisions about budget and club events

## TECHNICAL SKILLS

- **Engineering:** Strength testing, strain gauges, welding tools
- **Devices:** Lathe, milling machine and drill press
- **Software:** AutoCAD, SolidWorks, MATLAB, Mechanical Desktop 6, M/S Office including Project
- **Other:** M/S Windows operating systems, MAC OS