

Juan Dorantes

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Education

The University of Texas at El Paso (UTEP)

Bachelor of Science in Electrical Engineering

Overall GPA: 3.7/4.0

Anticipated May 2022

Electrical Engineering GPA : 4.0

Relevant Coursework Electrical Engineering: Circuits I&II, Software Design, Graphic and Design Fundamental, Digital Design, Electronics I, Continuous Time Signals & Biomedical Micro Devices .

Projects

Ball and Plate Platform

Arduino Project

Aug 2019- November 2019

- Designed and construct a Platform consisted in multiaxial center and two servos attached to lever arms that control the angle of the touchscreen.
- Implemented PID control to maintain desired position and regulate the motion of the servo to adjust position.
- Used CAD to design the structure of the Platform.

Micro-mouse, IEEE-Competition

Team Project

August 2019- Present

- Supported a team of three individuals, in solving software design technical issues for the mouse navigation.
- Programed PID controller to steer the mouse along a 90-degree angle, using feedback from encoders and infrared sensors.

Personal Website

Web Development

November 2020-Present

- Designed personal website, the website is designed to be responsive and able to use in mobile or desktop.

Work Experience

Incoming Product Marketing Engineer Intern

Texas Instruments

El Paso, TX

May 2021

- Incoming Product Marketing Engineer at Sugar Land Texas, for the Embedded Processors department.

Academic Tutor/ Chemistry Department

El Paso Community College

El Paso, TX

January 2017 – May 2019

- Proctored 4 laboratories per week, with over 40 students per class.
- Tutored 20 students weekly across 3 Chemistry courses and 4 Biology courses.

Customer Service Representative

Circle K

El Paso, TX

January 2019 – March 2020

- Supervised store daily operations and facilitated customer service experience by promoting items tailored to customer needs.

Volunteer Experience

Executive Officer

Present

Secretary

May 2020-Dec 2020

IEEE Officer UTEP Chapter

El Paso, TX

- Built over 10 spreadsheets & designed 5 forms for membership data collection.

Communications Outreach Chair

ACM UTEP Chapter

El Paso, TX

September 2020 -Present

- Directing external relationships with potential sponsors to collect funding for ACM events.

Chemistry Club Member

El Paso Community College

El Paso, TX

May 2017-May 2019

- Organized 5 funding events resulting in a profit of \$3,000.
- Obtained a \$5,000 donation by presenting at the College Club Board.

Skills

Programming Languages: HTML, CSS, JavaScript, and C.

Software: MATLAB, Visual Studio Code, MS Office, MULTISIM, Arduino ,Autodesk Fusion 360 & AutoCAD.

Languages: Spanish(native speaker) and English(native speaker).