Jessy Dimandja

Lubbock, TX
-Email me on Indeed: http://www.indeed.com/r/Jessy-Dimandja/ebedd96a240df339

Work Experience

Undergraduate Lab Research Assistant, Power Electronics Lab

Texas Tech University - Lubbock, TX
January 2021 to Present

• Assist the design of a boost converter for the input of a 3-phase inverter of a silicon carbide device.
• Utilize a semiconductor curve tracer to spot design faults and trace the iv curve of a MOSFET.

Engineering, Mentor

Texas Tech University - Lubbock, TX
August 2020 to Present

Counsel and assist first year students on peer-to-peer mentor level to be acclimated to college life.

Electronics & Circuit Tutor

February 2020 to Present

• Tutor and evaluate over 200 students that lead to a 100 % passing rate per semester.
• Host special review sessions that increase students solving skills by 15 %.
• Arrange, correct, and systematize scantrons in a way that accelerates the grading process.

LEADERSHIP AND INVOLVEMENT

Vice President

TTU Solar Car Team
January 2020 to May 2020

Designed the first prototype of the solar car's chassis and body for the American Solar Challenge.

Engineering Club, President

Brookhaven College - Dallas, TX
February 2019 to May 2019

Chaired meetings, directed fundraisings, and reported club's activities to the Dean of Science.

Education

Bachelor of Science in Electrical Engineering

Texas Tech University - Lubbock, TX
December 2021

Associate of Science and Liberal Arts in Science and Liberal Arts

Brookhaven College - Dallas, TX
July 2019

Skills

- Technical Skills
- Spoken Languages
- Fluent in English, French, and Spanish.
- Relevant Classes
- Power Systems, Power Electronics, Feedback Control Systems, Principles of Communication Systems, Microcontrollers, Electromagnetic Theory I&II, Electric Circuits I&II, Electronics I&II, Modern Digital Systems Design, Linear Systems, Project Lab I&II.
- Project Highlights
- Performed source to load impedance matching using a transformer circuit, and successfully simulated the circuit on LTspice.
- Implemented and tested a comparator circuit on PCB using Eagle CAD.
- Programmed an autonomous rover on a metallic track using a micro-controller, sensors, and Verilog programming language.
- Generated a timer using a micro-controller, expansion boards, and Assembly programming.
- Designed a balance and unbalanced three-phase power system on Multisim.
- Analyzed the electric grid of a city to ensure reliable electric service on PowerWorld.
- SKILLS
- RELEVANT CLASSES
- PROJECTS
- Assembly language
- C++
- MATLAB
- Python
- Verilog.
- Microsoft office
- Eagle CAD
- PowerWorld
- AutoCAD
- LTspice.