



Dedicated and innovative Electrical Engineering Master's Student. Passionate about advancing sustainable energy solutions and developing efficient, reliable infrastructure to address power & energy challenges.

## Education

<b>Texas A&amp;M University</b>   College Station, TX	<b>M.S.</b>	<b>May 2025</b>	<b>GPA: 4.0</b>
Bachelors & Masters of Science in Electrical Engineering	<b>B.S.</b>	<b>May 2024</b>	<b>GPA: 3.55</b>
Latin Honors & Dean's Excellence Award			

## Work Experience

### Electrical Engineering Intern

#### SynchroGrid – Bryan, Texas

September 2024 – Present

- Designing protective relay system settings for **Burns & McDonnell** using **Siemens Gridscale X**.
- Performing calculations for **protective relay** settings on power lines.
- Simulating power system designs to ensure functionality of protective devices on electrical equipment.
- Analyzed **ERCOT power system models** to recommend optimized relay settings for system modifications.

### Power & Reliability Engineering Intern

#### Valero – Houston, Texas

May 2024 – August 2024

- Developed contingency plans for loads from overhead lines to eliminate power outages, saving **\$162,500/Day**.
- Collaborated with **CenterPoint** on pad mounted transformer **backup power upgrade** to refinery tanks.
- Engineered **upgraded 4160 V CAT cooler** motors power plan to MCC at new substation.
- Managed installation of new power feeder line to crude tank farm, enhancing the refinery's **power infrastructure**.

### Senior Design Project Lead

#### SAMSUNG – Austin, Texas

August 2023 – May 2024

- Automated monthly generator test processes at fabrication labs in Austin, reducing cost by **65%**.
- Programmed an **Android application** streamlining generator test with advanced features & data analysis techniques.
- Led the team to **first place** on the board of directors' competition at Texas A&M.

### Electrical Products Engineering Intern

#### SIEMENS AG – Atlanta, Georgia

May 2023 – August 2023

- Revamped UL Dust Test Chamber resulting in **152%** reduction costs and **100%** increase testing efficiency.
- Orchestrated a comprehensive strategy for DC breaker testing used in futuristic **DC/AC** hybrid power grid.
- Collaborated with Germany Team on software simulation replicating breaker short circuit simulation saving **\$695/Day**.
- Performed various tests on Siemens breakers at UL Testing lab facility in Tucker.

### Electrical Engineering Intern

#### International Co-Op at BOJAMHOOR – Doha, Qatar

June 2020 – July 2021

- Interpreted AutoCAD blueprints for the circuitry of **13 public schools** across the nation.
- Pulled cables from loads to distribution board.
- Collaborated with engineers on construction site planning power optimization.

## Leadership & Extra-Curricular

#### Formula Electric SAE (F-SAE) – Electronics Team Member

June 2022 – Dec 2022

#### Eta Kappa Nu National Honors Society (HKN-IEEE) – Project Team Lead and Member

January 2020 – Present

#### Society of Hispanic Professional Engineers (SHPE) – Technical Division Team Member

August 2021 – May 2024

#### Institute of Electrical and Electronics Engineers (IEEE) – Member

August 2020 – Present

#### Engineering IT Specialist

May 2022 – May 2023

#### Engineering Teacher Assistant

August 2020 – Jan 2024

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| <b>Skills</b> | <ul style="list-style-type: none"><li>SolidWorks, CCS, C++, PSIM, Python, MATLAB, LT Spice, Kotlin, Gridscale X.</li><li>English: Native/Bilingual Proficiency, Arabic: Native/Bilingual Proficiency.</li></ul> |
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