

Joshua dos Santos-Becker

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EDUCATION

Texas A&M University

Electrical Engineering Major & Mathematics Minor

August 2021 - May 2025

College Station, Texas

- **GPA:** 3.542
- **Graduated:** May 2025
- **Relevant Coursework:** Electronic Circuits, Electromagnetics, Radars, Photonics, Fundamentals of Networking, Audio Engineering

WORK EXPERIENCE

Boeing Defense, Space & Security [🌐]

Electrical Design & Analysis Engineer

July 2025 - Present

Berkeley, Missouri

- Support modern defense programs through the design and analysis of electrical systems.

Texas A&M Chemistry Electronics Shop [🌐]

Student Electronics Technician

August 2023 - May 2025

College Station, Texas

- Repaired and replaced broken and malfunctioning research electronic equipment
- Daily tasks of soldering, researching, and ordering parts, replacing motors, switches, wires, power supplies, and ICs

Enercon Services Inc. [🌐]

Electrical Engineering Intern

May 2024 - August 2024

Fort Worth, Texas

- Reviewed electrical engineering principles related to power systems.
- Created electrical instrument and I/O item indexes for client submission packages.
- Peer Reviewed P&IDs and crosschecked National Electric Code to spec circuit power components.

Ocean Edge Services Inc. [🌐]

Electrical Engineering Intern

June 2023 - August 2023

Houston, Texas

- Studied modern subsea distribution equipment processes and how hydraulic pressure is sent underwater to operate Xmas trees for oil and gas production.
- Digitalized testing procedure documents for various tests performed on top-side oil rig equipment.

Process Computer Technology [🌐]

PLC Panel Engineering Intern

May 2022 - August 2022

Houston, Texas

- Assembled PLC panels and enclosures to be shipped to various large-scale engineering control operations. Including electrical wiring and power tool drilling.

PROJECTS

Senior Design Capstone [🔗]

Technologies: Altium, LTSpice/MultiSim, GitHub

August 2024 - May 2025

- Designed and developed a DC-DC power system on a 2-layer PCB, converting a single input into three distinct output voltages to power an automatic pet feeder.
- Integrated an ESP32 microcontroller with a motor driver, weight sensor (ADC), and ultrasonic distance sensor, enabling real-time data communication with a mobile application via Firebase.
- Gained hands-on experience with Altium Design Suite, PCB manufacturing through JLCPCB, and sourcing electronic components from Mouser and Digi-Key.

SKILLS

Programming Languages: Python, C/C++, Java, HTML/CSS/JS, Verilog

Developer Tools and Technologies: Altium, LTSpice/MultiSim, PCB Design, Spyder, MatLab, VS Code, Eclipse, GitHub