# DANIELA BASURTO ARMIJO

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## SKILLS

**Languages & Tools**: Python, C++, MATLAB, ROS (Linux), PLC (Toyopuc), TensorFlow, ReactJS, HTML, CSS, Git, PSpice, LabView, KiCad, Altium, Fusion 360, OnShape, Microsoft Power Apps, Microsoft Power Automate, Power BI
**Hardware & Systems**: Arduino, ESP32, ESP8266, Raspberry Pi, Custom PCB Design, RFID Modules, Analog & Digital Sensors
**Soft Skills**: Teamwork, Leadership, Adaptability

## EDUCATION

The University of Texas at San Antonio | **Bachelor of Science in Electrical Engineering** | Graduation: Summer 2025 | GPA 3.7

## EXPERIENCE

**Toyota Motor Manufacturing Texas – Engineering Co-op**

*Feb 2025 – May 2025*

- Developed and optimized PLC logic to streamline repair vehicle buffer operations and reduce interruptions in production line.
- Designed a digital maintenance checker via Microsoft Power Apps to eliminate paperwork and improve data logging.

**Nagarro Texas – Software Development Intern**
*June 2023 – Aug 2023*

- Built a web application with a GUI, database, and chatbot API integration.
- Strengthened frontend and backend skills through collaborative agile development.

**SEO Tech Developer Internship**
*June 2022 – Aug 2022*

- Developed a static web app using the Spotify API to display user listening stats.

**NSF REU – Robotics & AI Research Intern**
*June 2024 – Aug 2024*

- Engineered the computer vision for an industrial robotic arm to detect, pick, and place objects on a conveyor system.
- Implemented reinforcement learning algorithms (Q-Learning, DQN) to optimize control policies.

**UTSA REU – AI/ML Research Intern**
*Aug 2022 – Dec 2022*

- Trained an AI model to detect and classify local traffic signs using Raspberry Pi and TensorFlow.

## PROJECTS

**Smart Digital Inhaler (Capstone Project)**
*Aug 2024 – May 2025*

- Developed a compact, sensor-rich PCB for a digital inhaler that monitors usage, air quality, and orientation of the device.
- Led embedded system integration for real-time data capture and user feedback.

**Custom 3D Printing Business – Co-founder**
*Aug 2024 – July 2025*

- Created a custom IR LED controller to repurpose unused LEDs and improve production of LED boxes.

**Automated Dog Ball Launcher**
*June 2024 – Aug 2024*

- Build a microcontroller-based launcher using proximity sensors and speed control logic.

**PCB LED Keychains**
*spring 2024*

- Designed and fabricated custom PCBs for student outreach and workshops for my student organization.

## LEADERSHIP & INVOLVEMENT

- **Robotics and Automation Society,** Vice President (2024– 2025), Recruitment Coordinator (2022-2024)
- **IEEE Member**, Since 2021
- **UTSA College of Engineering Ambassador** (2021– 2025)