Luis Gonzalez

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Professional Summary

A dedicated Electrical and Computer Engineering Honors student with proven leadership experience across academic, technical, and community-service organizations. Holding leadership positions in multiple engineering societies, I have a track record of guiding complex technical projects, fostering collaborative team environments, and mentoring fellow students. This commitment to leadership and service reflects a deep-seated drive to apply a strong engineering foundation to solve real-world challenges. Seeking to bring a unique blend of technical aptitude and dedicated leadership to an innovative engineering role.

Relevant Coursework

Course	Term
Engineering Projects in Community Service	Fall 2023
Logic Design	Fall, 2024
Digital Circuits	Fall, 2024
Linear Algebra	Fall, 2024
Differential Equations I	Spring, 2025
Statics & Dynamics	Spring, 2025
Discrete Math	Spring 2025
Electric Network Theory	Spring 2025
Micro Computer Systems I	Spring 2025
Engineering Analysis II	Fall 2025
Math in Signal & Systems	Fall 2025
Electronic Circuits I	Fall 2025

Research Interest

I am interested in robotics systems design/development. Passionate about exploring how robotic technologies can optimize processes, solve challenges, and drive innovation in engineering.

Skills

Programming
- Python – Intermediate
- MATLAB – Intermediate
- R – Intermediate
- C/C++ – Advanced
- Java – Novice
- HTML/CSS – Intermediate
- XML – Novice
- Assembly – Intermediate
- OpenCV – Intermediate
- Git – Intermediate
- PlatformIO - Intermediate

Software
- Microsoft Office – Advanced
- Google Suite– Advanced
- AutoCAD – Advanced
- Revit – Intermediate
- SolidWorks – Advanced
- 3D Printing – Advanced
- KiCad – Intermediate
- Linux – Intermediate
- Computer Vision – Intermediate
- GitHub - Intermediate

Hardware
- Arduino – Advanced
- Tetrix Prizm – Advanced
- Raspberry PI – Intermediate
- Jetson Nano – Intermediate
- ESP32 – Advanced
- PIC 16F1825 – Intermediate

Certificates & Awards

Certification – Additive Manufacturing

Awards:

• Engineering Projects in Community Service Award	2023
• Architecture Construction Engineering mentorship alumni scholarship	2023 – present
• National Society of Collegiate Scholars	2023 – present
• UTSA Honor's College	2023 – present
• Dean's List	2023 – present

Education

The University of Texas at San Antonio

Bachelor's in Electrical & Computer Engineering

Expected Graduation year: 2027

GPA: 3.7

Projects & Presentations

Humanoid Robot	2023
Eye Tracking for ALS Patients	2024–Present
Small Bluetooth RC Car	2024
San Antonio Zoo – Gibbons Water Button	2025
Metal Robotics Arm	Present
University Rover Challenge (Intelligence Team)	2024
Custom Lithophane with Custom PCB	Present

Presentations:

• The Modernization of the San Antonio Missions Stadium (UTSA Downtown)	2023
• Humanoid Robot for Engineering Projects in Community Service (EPICS)	2023
• ALS Eye Tracking Prototype (EPICS)	2024

Professional Affiliations & Community Involvement

ACE Mentorship Program (Organization Alumni)	2021 – 2023
Science & Engineering Mentor – John Jay Science & Engineering Academy, Texas	2022 – 2023
STEM Festival Event – John Jay Science & Engineering Academy, Texas	2023
Volunteer – Deer Meat Skinning – San Antonio Food Bank, San Antonio, Texas	2023
Foster Care Highschool Tutor – San Antonio, Texas	2023 – 2024
UTSA National Society of Collegiate Scholars (Student Member)	2023 – present
UTSA Mathematical Association of America (Student Member)	2023 – present
IEEE Robotics Automation Society (Organization Technical Representative)	2024 – present
Engineering Projects in Community Service – UTSA, Texas (Organization Vice President)	2024 – present
Society of Hispanic Professional Engineers (Student Member)	2024 – present
IEEE (Member)	2024 – present
Engineering Projects in Community Service (Teaching Assistant)	2025 – present