Andres Torres

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EDUCATION

B.S. Electrical & Computer Engineering, The University of Texas at Austin   **Spring 2027**

Engineering Honors Program

Dell Scholar

Certifications – AutoCAD, Autodesk Inventor, Fusion 360

Software – Figma, KiCad, LTspice, Fusion 360, Excel, SolidWorks, VS Code, Code Composer Studio, Vivado, trick.

Languages – Fluent in Spanish and English, C/C++, Python, VHDL, Verilog, Julia.

Additional Info – Willing to relocate anywhere in the United States.

PROJECTS

Space Invaders Video Game   **Fall 2024**

- Engineered a fully functional Space Invaders game in C using the TI MSPM0 microcontroller and an integrated LCD display. Implemented low-level hardware interfacing, real-time input handling, and efficient rendering to deliver smooth gameplay on embedded hardware.

FSM Street Light   **Fall 2024**

- Implemented a fully functional street-light system using a finite state machine architecture to control, timing, transitions, and safety states. Programmed and interfaced the hardware to simulate real-world traffic-light behavior with reliable, deterministic operation.

AI Agent   **Summer 2025**

- Developed an automated AI agent in Python that parsed and filtered online scholarship databases to identify opportunities tailored to ECE students. Implemented web-scraping login, relevance scoring, and data-cleaning routines to streamline the search process and reduce manual effort.

Buck Converter   **Fall 2023**

- Designed and simulated a functional buck converter by creating the full schematic and PCB layout in KiCad. Routed and prepared the board for fabrication, culminating in a professionally manufactured PCB produced through TI's printing service.

Dumbbell Rack Safety Tool   **Fall 2022**

- Developed a 3D-printed safety tool designed to prevent finger injuries when re-racking dumbbells. Refined the device through multiple prototyping cycles, restructuring the design to improve durability, usability, and overall effectiveness. Sold 100 units as of Spring 2026.

WORK EXPERIENCE

Web Developer   **Summer 2023 – Present**

- Deliver custom websites and digital solutions for multiple active clients, managing full-cycle development from initial consultation to deployment while ensuring clean, responsive, and maintainable code.

TSI Test Prep Tutor   **Summer 2022**

- Built a high-volume tutoring practice serving almost one hundred TSI students, driving strong summer revenue while providing targeted, results-driven academic support

LEADERSHIP & ACTIVITIES

Texas Marine Robotics (Lead Electrical)	**Fall 2025 – Present**
Society of Hispanic Professional Engineers (SHPE)	**Fall 2023 – Present**
Institute of Electrical and Electronics Engineers (IEEE)	**Fall 2023 –Present**
Project M.A.L.E.S./I.M.P.A.C.T. Mentor	**Fall 2024 – Present**
B.E.S.T Robotics	**Fall 2022 – Spring 2023**