

Hugo De La Garza

Houston, TX | (832) 407-6884 | hugodelagarza06@gmail.com

EDUCATION

Texas A&M University
Pursuing a Bachelor of Science in Electrical Engineering
GPA: 3.65 | Craig and Galen Brown Engineering Honors

College Station, TX
May 2029

EXPERIENCE

Autodesk
Design and Make Ambassador

College Station, TX
June 2025 - Present

- Promote Autodesk engineering software through workshops, technical outreach, and coordination with the campus leader
- Engage students on LinkedIn to expand awareness of Autodesk engineering applications, reaching 2,000+ impressions

Amazon
Software Development Engineer Intern

Seattle, WA
May 2026 - August 2026

- Productionized an agentic website evaluation system for risk detection with alarms, ticketing, and rollback support
- Expanded evaluation from 5 hardcoded checks to up to 50 dynamic criteria using internal tooling
- Achieved 12.1-minute P99 runtime while maintaining ~98% agreement with manual investigations

CAMPUS LEADERSHIP & INVOLVEMENT

Aggie Robotics
Combat Electrical Lead

May 2026 - Present

- Lead electrical development for the team's flagship 12 lb combat robot and oversee subsystem integration
- Develop training materials and coordinate electrical team design efforts

Combat Electrical Member

January 2026 - April 2026

- Assembled and soldered wiring harnesses and integrated kill switches for all 1 lb plantweight robots
- Reviewed competition electrical regulations and contributed to custom circuit design and fabrication

IEEE Microwave Theory and Technology Society

Technical Education Committee Member

February 2026 - Present

- Develop RF engineering expertise through HFSS simulation, antenna theory, and transmission line analysis
- Develop SDR and IoT workshops for the 2026–27 academic year

W5AC Texas A&M Amateur Radio Club (KJ5NYT)

September 2025 - Present

- Participate in School Club Roundup and Night at the ZACH outreach events promoting amateur radio

PROJECTS

Buildrail — Local-First Software Engineering Platform

August 2026 - Present

- Build a local-first developer platform for reusable AI skills, testing, code review, and engineering workflows
- Design composable pipelines with structured artifacts, offline execution, and swappable AI provider support
- Implement CLI tooling for test analysis, dependency auditing, project verification, and quality automation

SKILLS

Programming Languages: Python, C++, Java

Technologies: Agentic AI Systems, CI/CD, Software Pipelines, Git, Linux

Software: Fusion, SolidWorks, Altium, HFSS, KiCad, AutoCAD, Revit, Microsoft Office

Certifications: Certified SolidWorks Associate (CSWA), Electrical Design

Awards: Dean's Honor Roll (Fall 2025), Distinguished Student (Spring 2026), AFE Scholar (2025), HSF Scholar (2025, 2026)

Languages: English (Fluent), Spanish (Fluent)