

Garrett Edward Laconis

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EDUCATION

Texas A&M University

Bachelor of Science in Electrical Engineering, December 2026

Course Curriculum: Circuit Theory, Digital System Design, Program Design Concept C++, Python

College Station, Texas

Gpa: 3.25

EXPERIENCE

Tesla

Austin, Texas

Engineering Program Management Intern

May 2025 – Present

- Identified and tracked construction clashes across disciplines by coordinating with design, field, and construction teams; proposed and drove resolution strategies to prevent schedule delays
- Drove design improvements that prevented ~\$125K in unnecessary expenditures, aligning scope with execution needs
- Collaborated with factory stakeholders and engineers to gather input, refine requirements, and drive deliverables from the engineering design team, ensuring alignment with field execution needs
- Drove weekly coordination meetings between engineering and field teams, aligning on priorities, resolving open issues, and preparing for upcoming construction activities

Total Motion inc.

Katy, Texas

Prototype Evaluator

Jan 2020 – Present

- Advised and reviewed changes when problems arose
- Discovered previously unnoticed issues amidst prototype processes
- Tested products and subassemblies for functionality

Tesla

Robstown, Texas

Electrical Engineering Intern

January 2025 - May 2025

- Created SIO designs aligned with project specifications and field requirements, contributing to improved electrical system uptime
- Designed control schematics and one-line diagrams for medium and high voltage power distribution systems to support safe industrial operations
- Performed hands-on field troubleshooting of electrical systems, implementing immediate fixes to minimize downtime and maintain safe operations

Shell

Norco, Louisiana

Electrical Engineering Intern

May 2024 – August 2024

- Led the design and implementation of a motor space heater alarm system, significantly reducing the risk of motor fires and enhancing overall safety by updating one-line drawings and control schematics
- Coordinated the replacement of a steam turbine with an electric motor, creating new one-line diagrams, designing control schematics, and configuring substation components to assure seamless integration
- Conducted a comprehensive safety review of the substation, identifying critical failure points, and developing a robust design package to protect high-value motors, mitigating potential risks

Pine Cove

Columbus, Texas

Ridge Wake Park Driver

May 2023 – August 2023

- Conducted routine maintenance checks and performed minor repairs on wake park equipment to guarantee 100% up-time on a \$4-million dollar machine
 - Operated wake park equipment, including multi-million dollar cable systems, ensuring safe and enjoyable experiences
 - Responded swiftly to any emergencies or incidents in order to maintain a secure environment for all participants
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TECHNICAL SKILLS

- Software: ETAP, AutoCAD, Inventor (Certified), Fusion 360
 - Coding Proficient: Python, C++
 - Electrical Design: Safety analysis, one-line diagrams, control schematics, SIO cabinet design
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PROFESSIONAL ORGANIZATIONS & AWARDS

Professional Brotherhood of Engineers, Fundraising Officer, Public Relations Officer

May 2023 – Present

- Organized and executed fundraising events, securing consistent funding streams by building and maintaining strong relationships with donors and sponsors
- Tracked and reported on fundraising progress, optimizing strategies to meet and exceed financial targets for organizational initiatives

Society of Hispanic Professional Engineers

August 2023 – Present

Boy Scouts of America, Eagle Scout

- Achieved the highest rank in the Boy Scouts of America, demonstrating leadership, commitment, and community service