CECILIA CASTILLO

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EDUCATION

University of Texas at Austin – Austin, TX
Bachelor of Science in Electrical and Computer Engineering   **May 2027**
- Specialization: Software Engineering & Data Analytics
- Minor: Global Sustainability Leadership

DIS Abroad – Copenhagen, Denmark
Study Abroad   **May 2024**
- Explored energy-efficiency, urban infrastructure, and sustainable design through local case studies and expert site visits.

EXPERIENCE

Siemens PTI – Houston, TX   **May 2025 - Present**
Grid Software Energy Business Advisory Technical Consultant
- Developed scalable analytics tools using Python and SQL, improving energy market forecasting performance and quality control workflows.
- Built and maintained interactive Power BI dashboards used by U.S. utility clients to assess regulatory scenarios and grid expansion plans.
- Presented technical insights to Energy Think Tank with U.S. executives, strengthening cross-functional decisions on innovative projects and planning.

TexUS Lab – Austin, TX   **August 2024 - Present**
Undergraduate Research Assistant
- Developed optimization tools using visualization software to support data analysis for climate resilience and urban infrastructure planning.
- Built data visualization models for hindcast validation of AI-driven forecasting models leveraging Python and custom libraries.
- Collaborated with researchers across engineering and policy departments to integrate stakeholder input into long-term planning tools.

Engineering Honors Leadership – Austin, TX   **January 2025 - Present**
Teaching Assistant
- Mentored ECE Honors students through foundational computing concepts like algorithms, embedded systems, and data structures.
- Designed and led sessions to strengthen communication, collaboration, technical storytelling, and leadership within an academic and professional environment.
- Organized faculty and student panels to motivate mentees to pursue research and involvement in student organizations.

LEADERSHIP & ACTIVITIES

Longhorn Racing: Electric Car – Austin, TX   **August 2024 - Present**
Sustainability Team Founder & Lead
- Founded and led a cross-functional team of 7 focused on research and development, materials management, and strategy.
- Secured $30,000 in competitive funding to prototype drivetrain systems for emissions and energy loss reduction.
- Used performance telemetry data and energy modeling to guide iterative system improvements and long-term investments.

Longhorn Energy Club – Austin, TX   **June 2025 - Present**
Vice President of External Affairs
- Spearheading partnership strategy with energy, fintech, and software leaders to drive innovation-centered events.
- Launched outreach plan based on stakeholder mapping and market analysis.
- Secured $1,000 in funding for Texas Innovation Night, showcasing startups in clean technology and digital finance.

Green Fund Committee – Austin, TX   **June 2025 - Present**
Committee Member
- Advised $600,000+ in grant proposals, providing consulting-style feedback to faculty and students on sustainability strategy.
- Mapped alignment between technical goals and institutional climate plans to inform funding decisions.
- Strengthened campus climate strategy through cross departmental collaboration and long-term impact analysis.

ECE Amplify: Mentor   **August 2025 - Present**
Dr. Hao Zhu: Group Power Electronics & Power Systems – Austin, TX   **June 2025 - Present**
IEEE: Power & Energy Society – Austin, TX   **June 2025 - Present**
Society of Women Engineers– Austin, TX   **August 2023 – Present**
Society of Hispanic Professional Engineers – Austin, TX   **August 2023 – Present**

AWARDS & ADDITIONAL INFORMATION

- **Honors**: Santander Scholarship for Engineering (Fall 2025), Jim Moritz Memorial Scholarship in Automotive Engineering (Fall 2025), Grace Hoppers Scholarship (Fall 2025), Jane Cook Barnhill Scholarship (Fall 2025), Ronald M. Guinn and Ann Bley Guinn Scholarship (Fall 2025, 2024), Verizon Opportunity Scholar (Fall 2023), Forty Acres Finalist (Fall 2023), Valedictorian (May 2023)
- **Language Fluency:** Spanish (Native), French (Conversational)
- **Technical Skills:** Python, C/C++, Java, SQL, Linux, Microsoft Suite (Power BI, Excel, Word, PowerPoint), GitHub
- **Concepts:** Data structures, algorithms, optimization, business strategy, market analysis