

Isabel Quintero

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Mechanical Engineering

Hispanic Scholarship Fund Scholar

Atlanta, GA

Expected May 2029

2025

WORK EXPERIENCE

Vincenty, Heres & Asociados (VHA), San Juan, Puerto Rico

Project Engineering Intern

Jun-July 2025

- Conducted a technical assessment of Coca-Cola's newly acquired treatment plant, identifying deficiencies in equipment labeling, spill-control systems, and waste-handling processes to support improved operational reliability.
- Reviewed and validated environmental and operational permits to ensure alignment with regulatory requirements during the acquisition transition.

Project Engineering Intern

Jun-July 2024

- Updated technical résumés and developed a streamlined company portfolio used for client communication and project proposals.
- Designed flow charts and data visualizations that clarified system processes for annual reports and client presentations.

PROJECTS

Wetland Loss & Flood Impact – Prototype

Atlanta, GA

Research & Outreach Lead

August 2025-Current

- Working with an interdisciplinary and diverse team to examine how the destruction of coastal wetlands and marshes increases community vulnerability to flooding.
- Investigating the protective role wetlands play in buffering storm surge and reducing natural-disaster damage, and using those insights to explore engineering, environmental, and community-centered strategies that could strengthen coastal resilience.
- Leading stakeholder outreach by contacting 5+ individuals, including coastal residents, environmental scientists, and practitioners, to integrate expert knowledge and lived experience into the team's research direction and solution development.

Accessible Grocery Scanner – Assistive Technology Prototype

Boston, MA

Co-Developer & Creator

July 2024

- Collaborated with a multidisciplinary team to design and prototype an assistive grocery-scanning device that identifies food products and delivers audible feedback to support visually impaired users.
- Engineered and assembled the device enclosure by designing laser-cut acrylic components in Fusion 360, ensuring proper fit, structural stability, and secure mounting for the Raspberry Pi, camera module, LED, and battery system.

RESEARCH

Determining the Bioremediation Potential of Bacteria with Heavy Metals in Waterway Streams

Aug 2024- Feb 2025

- Cultured *B. subtilis* and *E. coli* using aseptic techniques to ensure reliable microbial growth for bioremediation testing.
- Prepared six sets of serial dilutions for three heavy-metal contaminants and measured optical density using a spectrophotometer to quantify bacterial response and growth inhibition.
- Analyzed experimental data to evaluate each organism's potential for heavy-metal bioremediation in freshwater environments.
- Awards:** Observational pass to Regeneron ISEF; Stockholm Junior Water Prize Regional Award of Excellence; Naval Science Award; Association for Women Geoscientists SAGE Award.

SKILLS

SolidWorks, Fusion 360, SketchUp, Planner5D, Microsoft Office, Data Visualization | **Language:** English (fluent), Spanish (native)

LEADERSHIP & COMMUNITY SERVICE

Mater Salvatoris Student Council (National Association of Student Council)

San Juan, Puerto Rico

President, Vice-President & Secretary

Aug 2022–May 2025

- Led a 40-member student organization responsible for planning and executing major school-wide initiatives.
- Directed "Semana de las Misiones," raising \$4,000+ in donations for partner schools and local community organizations.
- Received the 2025 Gold National Council of Excellence Award through strengthened programming and documentation.

Elementary School Book Fair Revival – Literacy & Community Engagement Initiative

San Juan, Puerto Rico

Lead Student Organizer

Aug 2022–Oct 2024

- Initiated and led the revival of the school-wide Book Fair in partnership with the English Department Chair and a local library.
- Evaluated and curated a selection of 800+ books for age-appropriate content and educational value.
- Institutionalized the Book Fair as a recurring semester event and launched additional initiatives, including a Reading Marathon.

ORGANIZATIONS & AWARDS

Organizations: SHPE (Society of Hispanic Professional Engineers), SWE (Society of Women Engineers), BORI (Boricuas ORganized for Impact) | **Awards:** National Association of Student Council (NASC) Scholarship Recipient, Careme SEPA Standardized Testing Highest Achievement Award, College Board National Hispanic Recognition Program