

Miguel Angel Aronátegui González

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Objective

Junior Electrical Engineering student seeking a Summer 2025 Engineering Internship. Passionate about circuit design, automation, and optoelectronic devices, with hands-on experience in power systems, robotics, and embedded systems. Eager to drive innovation and contribute to cutting-edge engineering solutions.

Education

Georgia Institute of Technology | Atlanta, GA

August 2022 – Present

Bachelor of Science in Electrical Engineering, Junior

GPA 3.34

Expected Graduation: May 2026

- Concentrations: Circuit Technology, Electronic & Optoelectronic Devices | Minor: Robotics & Autonomous Systems

Experience

Intern - Electrical and Instrumentation Maintenance

AES Corporation Panamá/ Colon LNG Power Plant, Colón, Panamá

June 2024 – July 2024

Assisted in preventive and corrective maintenance of electrical systems at a 381 MW power plant. Contributed to a ground fault mitigation case study, gaining experience in industrial power systems, safety protocols, and fault analysis.

Research Assistant - Upper Body Exoskeleton

FAB Lab/ Universidad Tecnológica de Panamá, Panamá

June 2023 – August 2023

Designed and simulated self-interacting mechanical parts using CAD modeling for robotic applications. Conducted research on wearable assistive technology, refining technical writing skills through report analysis and documentation.

Office Assistant - Front Desk

Grupo Amanity | Panamá City, Panamá

January 2021 – June 2022

Managed scheduling, budgeting, and facility operations, ensuring smooth workflow. Provided customer service and administrative support, handling data entry, document management, and vendor communication.

Projects

Developed a peripheral for SCOMP programmers, enabling real-time control of up to four servos

April 2024

Building an API and using Doubly Linked List Library to code a video game in C++

April 2024

Searching algorithm in C++ and MIPS to optimize a robotic task

March 2024

Unlocking dorm door with access card using Arduino Kit

December 2022

Web development using HTML and CSS

September 2022

Remotely controlling three 120V devices through Bluetooth using Arduino

June 2022

Knowledge & Skills

Programming (Intermediate): Proficient in Python, C++, MIPS (Assembly), VHDL, FPGA, MATLAB, NI Multisim.

Instrumentation: Multimeters, oscilloscopes, spectrum analyzers, and signal processing tools.

Microsoft Office (Advanced): Excel, Word, Teams, PowerPoint, and Outlook.

Languages: Fluent in English, native in Spanish, beginner-level French.

Organizational: Event planning, intensive workloads time management, delegation, and goal setting skills.

Interpersonal Skills: Oral and written communication, teamwork, problem solving, and leadership skills.

Relevant Coursework

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|-----------------------------------|-------------------------------------|------------------------------------|
| ○ Electromagnetics & Applications | ○ Hardware/Software Programming | ○ Intro to Signal Processing |
| ○ Microelectronic Circuits | ○ Digital System Design & Lab | ○ Semiconductor Devices |
| ○ Statics & Dynamics | ○ Circuit Electronic Analysis & Lab | ○ Feedback Control Systems |
| ○ Feedback Control Systems | | ○ Probability & Statistics for ECE |

Activities

D1 Athlete / Georgia Tech Track and Field team / Atlanta, Georgia, USA (20hrs/week)

August 2022 – April 2024

Residence Hall Council / Georgia Tech Housing / Atlanta, Georgia, USA (4hrs/week)

August 2024 – Present

EMBARC / Student Member / ECE Department / Georgia Tech, Atlanta, GA (4hrs/month)

January 2025 – Present

San Juan Apostol Catholic Church / Choir Member and Retreat Volunteer / Panamá City, Panamá

October 2007 – Present

Pandeportes / Athlete / National Track and Field team / Panamá City, Panamá

December 2015 – December 2021