Gustavo Moran Diaz

Electrical Engineering Student

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Education

- Stevens Institute of Technology, Hoboken, NJ.
- Bachelor of Electrical Engineering | Expected May 2025
- Minor in Pure and Applied Mathematics
- GPA: 3.93 | Awards: Dean's List (Fall 2021, Spring 2022), Edwin A. Stevens Scholarship

Experience

- Electrical and Computer Engineering Lab Monitor | Sept. 2021 – Present
    - Assisted with construction of various senior design projects by overseeing deconstruction of old projects for parts and physical assembly of new projects.
    - Helped students with lab assignments in Microprocessor Systems class with AVR assembly, x86 intel assembly, and C++
    - Assisted in hosting a review session for final examination of Microprocessor Systems class outside of lab or class hours
- Stevens Technical Enrichment Program Tutor | Sept. 2022 – Present
    - Tutoring students within the STEP program upon request, boosting their understanding of core subjects by reviewing exam materials and practice problems
    - Expertise in Differential Equations, Multivariable Calculus, and Linear Algebra

Projects

- Autonomous Robot (C++/Solidworks) | 2022
    - Created a small robot made to traverse an obstacle course and hit different targets located throughout the course using ultrasonic sensors and an AVR microcontroller
- Weather Station (C++/Solidworks) | 2021
    - Created weather station to monitor temperature, humidity, and light level in environment
    - Modeled enclosure model using Solidworks, programmed AVR microcontroller using C++, and assembled physical structure using solder and 3D printed components
- Spotify API Analyzer (*Python*) | 2021
    - Uses a text-based user interface to navigate Spotify's API and provide the user with insights into their current listening habits, playback control, and lists of their top artists, songs, and albums

Skills

- Proficient in Solidworks, C++, Autodesk Inventor, Excel, Word, and PowerPoint.
- Intermediate in Soldering, Wiring, AutoCAD, AVR Microcontrollers, and 3D Printing.
- Beginner in C/Embedded C, Python, x86 Intel assembly.

Relevant Courses

- Differential Equations
- Multivariable Calculus
- Math for Electrical Engineers
- Microprocessor Systems
- Circuits and Systems
- Signals and Systems (*In Progress*)
- Intro to Programing & Algorithmic Thinking
- Intro to Engineering Design & Systems Thinking
- Statics and Introduction to Engineering Mechanics