

Gabriel A. Nieves Ruiz

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EDUCATION

Inter American University of Puerto Rico

Jan 2024 - Expected Dec 2026

Bachelor of Science in Computer Science

Relevant course work: Data Structures and Algorithms, Programming Languages, Organization & Computer Architecture, Operating Systems

Previously pursued coursework in Airway Sciences and Aircraft Systems Management

Aug 2021 – Dec 2023

MILITARY TRAINING

US Army Aviation Logistics School, Fort Eustis, VA

Jan - Jun 2021

UH-60 A/L-M Helicopter Repairer

Completed technical instruction and laboratory training in helicopter systems, maintenance, inspection, powertrain systems, and systematic troubleshooting.

PROFESSIONAL EXPERIENCE

Puerto Rico Army National Guard

March 2020 - Present

Helicopter Repairer, Air Crewmember

- Perform scheduled and corrective maintenance on UH-60 helicopters to support safe, mission-ready flight operations.
- Serve as an air crewmember safeguarding passengers, cargo, and aircraft during flight operations.
- Diagnose and repair mechanical faults using systematic troubleshooting and problem-solving.

TECHNICAL PROJECTS

ESP32 Based RF Transmitter

- Designed and built a compact 318 MHz OOK RF transmitter using an Adafruit Feather ESP32 V2 and CC1101 transceiver.
- Developed firmware using the Arduino framework to wake on button input, transmit a stored signal, display battery status through an onboard NeoPixel, and return the device to deep sleep.
- Implemented compatibility with the Flipper Zero raw recording format for signal storage and transmission.

Personal Portfolio Website | Next.js, TypeScript, Tailwind CSS

- Designed and developed a responsive portfolio website to present technical projects, skills, and professional experience.
- Built reusable interface components and responsive layouts for desktop and mobile devices.
- Used Git for version control throughout development.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, SQL

Embedded Development: ESP32, Arduino, CC1101

Web Technologies: HTML, CSS, React, Next.js, Tailwind CSS

Tools & Platforms: Git, Autodesk Fusion 360, EasyEDA

Spoken Languages: English, Spanish