Xavier Garay

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Work Experience

L3Harris Technologies — Clifton, NJ
Software Engineer, Space and Airborne Systems — Jun 2023 - Present

- Spearheaded and managed a project within an **Agile** environment from initial conceptualization through development to successful internal release and delivery, achieving an **80%** reduction in completion time
- Managed the project's **SQL database** and implemented new features on the user interface, thereby enhancing the overall user experience and a **30%** increase functionality of the project
- Developed Windows desktop GUI applications in **C++** using MFC for native interface design and event-driven architecture

NJ Army National Guard — Ft Dix, NJ
Cyber Warfare Officer, 17A — May 2023 - Present

- Established **DevOps** plans and tools in support of cybersecurity operations in alignment with a structured strategy to target adversary activities and capabilities
- Designed and developed software for **embedded systems** tailored for small-unit level deployment in tactical environments, enhancing operational efficiency and reliability
- Managed and maintained an **Active Directory** environment, including user/group administration, policy enforcement, and security configurations, ensuring seamless authentication and access control

MIT Lincoln Laboratory — Lexington, MA
Mechanical Engineering Intern — Jul 2022 - Aug 2022

- Tested material properties of silica waveguides as part of the structural and thermal fluids group
- Developed various software solutions to streamline data analysis processes and solve simulation problems, reducing data processing time by **35%**

Skills

C/C++	C#/.NET	Python	Java
NextJS	SQL	Git	Cloud Integration
DevOps	Windows PowerShell	Linux	Active Directory

Education

M.S. Electrical Engineering — Newark, NJ
New Jersey Institute of Technology; In-Progress — Jan 2025 - May 2026

M.S. Computer Science — Newark, NJ
New Jersey Institute of Technology; GPA: 3.7 — Sep 2023 - Dec 2024

B.S. Mechanical Engineering — New Brunswick, NJ
Rutgers University; Summa Cum Laude — Jan 2020 - May 2023

Certifications

GIAC Certified Forensic Analyst (GCFA)
Demonstrated expertise in advanced digital forensics, incident response, and threat hunting, with proficiency in analyzing file systems, memory, and network artifacts to detect and mitigate cyber threats

GIAC Certified Windows Administrator (GCWN)
Developed advanced skills in securing Microsoft Windows environments through strategic PKI management, Group Policy, and PowerShell security

GIAC Reverse Engineering Malware (GREM)
Expertise in malware analysis and reverse engineering to safeguard IT infrastructure against sophisticated cyber threats

Certified Associate in Project Management (CAPM)
Skilled in assessing and fortifying enterprise security postures, and adept at managing hybrid (**Agile** and/or **Waterfall**) environments including cloud, mobile, and IoT

CompTIA Security+ / Network+

Skilled in assessing and fortifying enterprise security postures, and adept at managing hybrid environments including cloud, mobile, and IoT

Projects

Portfolio Website
NextJS, TypeScript, Python, FastAPI, Artificial Intelligence

- Developed portfolio website using *NextJS* and *TypeScript*
- The public-facing site provides professional information, while the private code integrates API calls to a *FastAPI Python* script connected to self-hosted large language models (with Retrieval-Augmented Generation) and OpenAI's ChatGPT

Autonomous Water Collection Drone
Embedded Programming, Python, Computer Vision, Machine Learning

- Developed computer vision landing algorithm for an autonomous drone capable of collecting water and returning to a ground station as part of a senior mechanical engineering project
- Won "Best Mechanical Engineering Project" award for the class of 2023

3D Printer Filament Splicer
Embedded Programming, C, Project Management

- Led a team of high school students alongside a colleague to develop a tool that combines two different spools of 3D printer filament as part of the NJ Governor's STEM Scholars program

Home Lab
Embedded Programming, Docker, Linux, Windows Server

- Maintain Docker services within virtual machines hosted on Proxmox
- Several, smaller projects built with Raspberry Pi (e.g., moisture/temperature sensor, EMS direction finder)
- Provides a platform for learning, experimentation, and testing new projects