

LAURENCE ULBINADO SIPOL

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PROFESSIONAL SUMMARY

A highly motivated Computer Engineering graduate and a Professional Level Civil Service Eligible with 750 hours of hands-on experience in software development and IT support. I have proven my ability to build real world applications by developing a web-based inventory system for the local government using modern technologies like Next.js and PostgreSQL. Along with my software skills, I have practical experience in hardware networking, setting up Starlink equipment, and maintaining campus network infrastructures. I am a dedicated team player eager to bring my strong work ethic and technical adaptability to a full-time professional engineering role.

SKILLS

- **Programming Languages:** TypeScript, JavaScript, Java, Python
- **Frontend:** HTML, CSS, Next.js, React, Tailwind CSS
- **Backend:** NestJS, Node.js, Socket.IO (WebSockets), REST APIs
- **Database Management:** PostgreSQL, Prisma ORM
- **Hardware and Networking:** Raspberry Pi, Arduino, Network Fundamentals
- **Tools:** Git, Vercel, Railway
- **Environments & AI Tools:** VS Code, Cursor, ChatGPT, Claude, Gemini
- **Soft Skills:** Team Coordination, Collaborative Problem Solving, Active Listening

INTERNSHIP EXPERIENCE

DICT Nueva Vizcaya Provincial Office

March 2026 – May 2026

Completed 400 Hours

- Developed the Office Asset Services Inventory System (OASIS) on a local server using Next.js, NestJS, and PostgreSQL.
- Promoted the eGovPH application and provided technical support at major community events (Job Fair, Grand Ammungan Festival, Serbisyo Fair).
- Deployed Starlink internet equipment for outdoor government field operations.
- Provided technical troubleshooting and support for government-hosted online webinars.

Management Information System – NVSU Bambang Campus

January 2026 – April 2026

Completed 350 Hours

- Maintained campus network infrastructure, performing structured server room cable grooming to optimize hardware organization.
- Installed internet access points and configured audio-visual equipment for large university events.
- Inspected and maintained campus CCTV systems.

PROJECTS

Office Asset Services Inventory System (OASIS)

Programmer

- Developed a full-stack inventory and deployment system for the DICT NVPO, using Next.js 16, NestJS 11, TypeScript, PostgreSQL, and Prisma.
- Designed an audit-driven platform featuring role-based access control (RBAC), session heartbeats, and automated deployment workflows.
- Built a notification center for asset tracking and integrated file upload capabilities using TanStack React Query and the Next.js App Router.

Online Provincial Inventory System (OPIS)

Team Leader & Programmer

- Led the thesis team and full-stack development of an inventory management platform for PLGU Nueva Vizcaya using Next.js 15, NestJS 11, TypeScript, PostgreSQL, and Prisma.

- Architected an event-driven system featuring session authentication, role-based access control (RBAC) with office-level isolation, and real-time synchronization via Socket.IO.
- Implemented multi-stage requisition workflows, integrating automated reporting (Puppeteer, ExcelJS) and Google Drive API backups.

Automated Programmable School Bell System

Programmer & Hardware Support

- Programmed a Python-based school bell controller featuring a tkinter GUI deployed on a Raspberry Pi 4 Model B.
- Configured a multi-threaded scheduler to manage daily routines and emergency workflows, actuating hardware relays via RPi.GPIO.
- Integrated JSON configuration persistence and set up the Linux OS, real-time clock synchronization, and hardware wiring.

EDUCATION

Bachelor of Science in Computer Engineering

September 2022 – July 2026

Nueva Vizcaya State University, Bambang Nueva Vizcaya

- **Relevant Coursework:** Software Design, Database Management System, Computer Networks and Security, Embedded Systems, System and Network Administration, & Operating System

CERTIFICATIONS & ACHIEVEMENTS

- **IT Customer Support Basics** – Cisco Network Academy, April 2026
- **Python Essentials 1 & 2** – Cisco Network Academy, March 2026
- **JavaScript Essentials 1 & 2** – Cisco Network Academy, March 2026
- **Security and Connectivity Support** – Cisco Network Academy, December 2025
- **Robotics and Automation** – Erovoutika Robotics and Automation Solutions, October 2025
- **Vex V5 Robotics** – Hytec Power Inc., October 2025
- **Career Service Professional Eligibility** – Civil Service Commission, October 2025
- **CompTIA IT Fundamentals+** – CompTIA, May 2025
- **Safety Officer 1** – QESH Training Center & Consultancy OPC, May 2025
- **2nd Runner-up in Programming Competition - Java Category** – ICpEP Region II Regional Convention, December 2023

REFERENCES

Engr. Ryan Victor D. Bautista

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