

VINICIO ALEJANDRO NARANJO MOSQUERA

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GitHub Repository: <https://github.com/6aligula>

TECHNICAL SKILLS

Electronics:

- PCB design with Cadence Software
- Manual soldering SMD and THD
- Hardware reverse engineering
- Circuit diagnosis and repair

PROGRAMMING LANGUAGES

Bash, Python, JQuery, SQL, JavaScript, HTML, CSS, C, C++, C#, Java, Php, Bootstrap, Dart, Rust.

PROFESSIONAL EXPERIENCE

2017-2022 Electronic Technician in JZ Recielca

- Use of reverse engineering as a tool for the diagnostic and repairing of fork lift failures.
- Customer Service for whole diagnostic of failures.
- Home assistance for repairing by order of the customers.
- Diagnosis and repairing of speed controllers for DC motors and frequency inverters.
- Manufacturing of fork lift electrical wiring.

2016-2017 Electronic Technician in Tryo Aerospace

- Assembly of FM equipment (SMD manual welding) Microscope welding.
- Work under ESA Regulation guidelines:
 - ✓ ECSS-Q-ST-70-08C (THD Welding)
 - ✓ ECSS-Q-ST-70-38 (SMD Solder)
 - ✓ ECSS-Q-ST-10-09 (Warranty Non-Conformities)

2014-2016 Electronic Technician in HP Inc

- Designing of PCB with Cadence Software.
- Manufacturing of PCBs (LPKF Protomat S43 and Protomat S103 Milling Machine).
- PCB assembly with the required electronic devices.
- SMD welding with microscope.
- Testing and repairing of PCBs with automated Ersu Rework Hybrid.
- Repairing by reballing techniques of microcontrollers.
- Manufacturing and assembly of electrical circuits for new printer devices.
- Control and management of laboratory stock.
- Designing and manufacturing cables for electrical wiring printers. Industrial connectors used: DB9 family, Picospox, milligrid, spox, minifit JR, minifit Sr, microfit, sable, super sable, KK, Maten'look...)

2022-2023 Freelance: Software Developer

- Use of Python in back-end application development and cybersecurity, combined with React Native on the front-end to create attractive and functional user interfaces.
- Experience in ChatGPT engineering for developers, specifically with GPT-4.
- Versatile web developer with skills in Django, React Native, C#, Entity Framework, Dapper, Windows server, JavaScript, JQuery, HTML, CSS, Bash and Aws.
- Familiar with AI tools like GPT-4 and GitHub Copilot for optimizing the development and deployment of AWS cloud applications.
- Experience in designing and implementing database management systems, with a deep understanding of object-oriented and functional programming principles.
- Proficiency in AWS services, including EC2, S3, and VPS.
- Over 10 years of experience in hardware reverse engineering, complemented by competencies in programming and desktop support.
- Record of successful projects and challenging problem-solving thanks to a combination of reverse engineering experience and programming skills.

2022-2022 Junior Programming

- Designing and development of an application for Stock electronic laboratory control.
Using of programming languages: PHP, JavaScript; JQuery, AJAX, MySQL, Java.
- Designing of Data Base structure.
- Researching of new languages: Rust, Python, C, C++.

ACADEMIC CAREER

<u>2023</u>	Course part of data science degree in introduction to artificial intelligence Educational Center: UOC
2023	Master: Cyber Security. Educational Center: Unir.
2022	Bachelor technician: Development of multiplatform applications. Educational Center: Ins Calamot.
2013	Bachelor technician: Electronic Maintenance. Educational Center: Ins Camps Blancs

Languages

Spanish: Native
English: Technical
Catalan: C1

PERSONAL PROJECTS

Self-Built Smart Home System

- Designed and constructed a smart home system utilizing Raspberry Pi and ESP32 as primary controllers.
- Implemented MQTT communication to interconnect devices and enable efficient real-time communication between them.
- Developed a mobile application for remote control and monitoring of devices within the home.
- Established a VPN connection for secure remote access to the system, ensuring data protection and privacy.
- Integrated multiple sensors and actuators to perform specific functions.

eCommerce Platform on AWS

- Developed an eCommerce platform using Django as the backend, hosted on AWS (Amazon Web Services).
- Secured the entire platform, implementing best practices to protect user data and transactions.
- Constructed the frontend using React Native, enhanced with essential libraries such as Redux for state management, Secure Store for secure data storage, and AsyncStorage for asynchronous, unencrypted storage.
- Established HTTPS communication between frontend and backend, ensuring data encryption and secure data transfer.