

Irving Sanchez

Software Engineer | U.S. Air Force Veteran


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SUMMARY

Aspiring Software Engineer with a B.S. in Computer Science and a Minor in Mathematics. U.S. Air Force veteran and former electrician leveraging 12+ years of hands-on experience with electrical systems, PLCs, and industrial automation to solve software challenges. Proficient in full-stack development (e.g., Python, Java, React, .NET) and passionate about bridging hardware and software, from embedded systems to cloud computing. Combines a systems-engineering mindset with Agile practices to build scalable solutions.

Education

B.S. in Computer Science—Minor in Mathematics

Lewis University, Romeoville, IL  2019 - 2025

Focus on Software Development, Machine Learning, and Computer Engineering.

Certification—Journeyman Electrician

United States Air Force, Wichita Falls, TX  2010 - 2023

Trained in low-high voltage electrical systems, residential, industrial, and airfields.

EXPERIENCE

Journeyman Electrician

United States Air Force  2010 - 2023  Peru, IN

Responsible for troubleshooting and maintaining low-high voltage systems.

- Maintained substation and underground power distribution systems.
- Wired electrical components for residential and industrial facilities.
- Led airman in electrical projects provided by shop foreman.
- Certified bucket truck technician, and demolition class vehicles.
- Read and interpreted wire diagrams and schematics.
- Ensured maintenance of airfield lighting and electrical grids.
- Attained Journeyman Level Certification and Security Clearance

Electrician

Flow Pro Inc  2018 - 2019  Romeoville, IL

Constructed and wired electrical control panels and hi-voltage relay grids.

- Analyzed and interpreted wire diagrams for magnetic filtration systems.
- Collaborated with electrical engineer for quality control.
- Owned and maintained proper electrical tools and personal protective equipment.

Electrician

BW Container System  2018 - 2019  Bolingbrook, IL

Assembled electrical panels for industrial food and beverage conveyer lines.

- Wired PLC and classic relay systems for automation packaging.
- Read and interpreted wire diagrams and schematics.
- Troubleshoot electrical grids and coordinated with a team of electrical engineers and electricians for quality assurance.
- Owned and maintained proper electrical tools and personal protective equipment.

STRENGTHS



Problem-Solving

Bridged hardware-software systems in electrical and automation roles. Resolved complex electrical/software issues. (e.g., troubleshooting airfield grids, debugging assembly line automation)



Collaboration

Led and trained a team of electricians to deploy military mission essential electrical systems. Partnered with software developers to integrate PLCs and robotics, ensuring seamless automation.



Work Ethic

Transitioned from hands-on electrical roles to software engineering, taking on and learning modern technologies. Maintained mission-critical systems under tight deadlines.

Technical Skills

[Python](#) [Java](#) [C++](#) [C#](#) [C](#) [PHP](#)

[HTML](#) [JavaScript](#) [CSS](#) [.NET](#) [SQL](#)

Tools & Technologies

[Linux](#) [Git](#) [Node.JS](#) [React](#) [Express](#) [Bootstrap](#)

[VS-Code](#) [VirtualBox](#) [Docker](#) [MS-Azure](#) [WSL](#)

Other Relevant Skills

[OOP](#) [Data-Structures & Algorithms](#) [REST-API](#)

[Agile Methodology](#) [Circuit Analysis](#) [MS-Office](#)

[Bilingual \(Spanish & English\)](#) [Blueprint-Interpretation](#)

Interests

[Coding](#) [Robotics](#) [Artificial Intelligence](#) [Chess](#)

[Machine Learning](#) [Continuing Education](#) [Comics](#)

[Cybersecurity](#) [Cloud Computing](#) [Psychology](#)

EXPERIENCE (Continued)

Electrician

Felsomat USA Inc.

📅 2017 - 2018 📍 Schaumburg, IL

Built and integrated precision laser-cutting automated assembly systems for industrial manufacturing customers.

- Assembled and wired electrical control panels and high voltage relay grids.
- Wired PLC's (Programmable Logic Controller) and relatable input/output components.
- Coordinated with computer programmer to ensure proper function of all electrical components.
- Wired and tested programmable robotics for assembly line automation.

Electrician & Mechanic

Messina Group

📅 2017 - 2017 📍 Logan Square, IL

Assembled industrial washer and dryer machines.

- Worked on industrial machine tool and dye equipment.
- Wired multi-panel electrical control enclosures.
- Owned and maintained proper electrical and mechanical tools.
- Read and interpret wire diagrams for electrical assembly.

Electrician

Thyssenkrupp Engineering

📅 2016 - 2017 📍 Auburn Hills, MI

Assembled and wired robotic automobile automation lines for (GM, Ford, Chrysler)

- Wired electrical conveyor systems and power distribution systems.
- Installed input/output components, and PLC systems.
- Collaborated with C++ programmers for proper functionality of assembly lines.
- Troubleshoot electrical or mechanical errors to ensure proper and secure installation.