

RAVEN PASCUA

REGISTERED ELECTRICAL ENGINEER

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Portfolio: <https://portfolio-sandy-seven-93.vercel.app/>

SUMMARY

Dedicated and results-oriented Electrical Engineer with a passion for problem-solving and teamwork. My experience spans electrical planning, drafting, safety protocols, and software development, and I'm always focused on delivering solid, reliable work. I'm excited to bring my skills to a role where I can contribute to meaningful projects and support the team's success.

AREAS OF EXPERTISE

PROFESSIONAL SKILLS Automation and Control Systems | Simulation and Prototyping | Embedded Systems Development | Programming Languages | Data Analysis and Visualization | Technical Documentation | Drafting and Design | Safety Protocols | Electrical Installation | Repair and Configuration of Electromechanical Devices and Microcontrollers | Team Collaboration | Problem-Solving and Critical Thinking

TECHNICAL SKILLS Siemens TIA Portal | CODESYS | InTouch Wonderware | Machine Simulator | Arduino IDE | C and C++ | Visual Studio | MATLAB | Microsoft Office | AutoCAD | SketchUp | Revit | LTspice

PROFESSIONAL EXPERIENCE

Freelance Electrical Engineer / Electrical Technician

June 2025 – Present

Various Clients

- Designed residential electrical systems in compliance with the Philippine Electrical Code.
- Performed electrical wiring, installation, and troubleshooting to ensure safe and efficient operation.
- Conducted maintenance, repairs, and upgrades to enhance system performance and the overall appearance of the property.
- Prepared cost estimates and material lists while working with homeowners to assess needs and propose practical solutions.

Draft Technician | Senior Draft Technician | Quality Assurance

January 2024 - May 2025

EMAPTA Versatile Services Inc. | Planitar Inc. (Client)

- Created detailed drafts primarily for 3D virtual tours, ensuring a high level of accuracy and visual appeal to enhance the immersive experience for clients and end-users.
- Produced high-quality and precise floor plans and digital models by utilizing advanced drafting software, ensuring accuracy and compliance with company standards.
- Collaborated closely with other teams to minimize errors, achieving a consistent error rate well below the target threshold, enhancing the overall quality of deliverables.
- Conducted thorough testing of drafted files to identify and correct issues, ensuring compliance with company standards, and provided error reports to offer guidance to drafters.

Safety Officer II (Project-Based at Texas Instruments, Baguio City)

November 2023 - January 2024

Susalum Corporation

- Ensured compliance with safety protocols and secured task performance of all team members under supervision.
- Supervised team members, ensuring clarity in roles and adherence to safety practices.
- Managed workplace safety procedures, conducted safety checks on equipment, and identified potential job hazards.
- Investigated accidents and incidents to determine root causes and recommended corrective actions to prevent recurrence.
- Collaborated with other departments to integrate safety measures into all aspects of the project, enhancing overall safety culture.

Electrical Engineering Intern

June 2022 - August 2022

Provincial Engineering Office, Benguet

- Assisted in site inspections to ensure compliance with electrical plans and Philippine Electrical Code standards.
- Contributed to the creation of layouts representing the electrical systems of various properties.
- Aided in developing detailed electrical plans for the improvement of the Province of Benguet.
- Assisted in conducting unit price analysis and cost estimates for electrical plans.
- Participated in post-earthquake safety inspections of several government buildings.

EDUCATION

Bachelor of Science in Electrical Engineering

2023

Saint Louis University | Baguio City

- Served as assistant research team leader, facilitating smooth operations for project completion.
- Designed the prototype for an Automated Greenhouse with Online Crop Growth Monitoring.
- Developed embedded software for the prototype using Arduino IDE.
- Conducted repair and configuration of electromechanical devices, microcontrollers, and other components used for prototyping to ensure optimal functionality and reduce costs.

----- LICENSES & CERTIFICATIONS -----

- PRC Registered Electrical Engineer
- Driver's License (DL Codes: A,B,B1,B2)
- Electrical Installation and Maintenance NC II
- BOSH Safety Officer II