

Arsene Kanane

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EDUCATION

UNIVERSITY OF OTTAWA

Bachelor of Applied Science (B.Sc.A.) in Electrical Engineering
Bachelor of Science (B.Sc.) in Computing Technology

Sep 2022– May 2027

Sep 2022– May 2027

EXPERIENCE

Electrical Engineering Intern – Glencore – Rouyn-Noranda/QC

May 2026 – Aug 2026

Analyzed electrical plans and specifications, including lighting, distribution, power systems, and one-line diagrams. Validated control and distribution schematics against project technical requirements and applicable codes (CSA, IEEE). Performed technical calculations for load sizing, voltage drop, grounding/bonding, and equipment sizing, including motor control centers, switchgear, and transformers. Contributed to the improvement and standardization of technical documents, including automation and protection/relaying diagrams. Collaborated with engineering teams and contractors to ensure consistency between design and execution.

Electrical Engineering Intern – Produits Kruger – Gatineau/QC

May 2025 – Aug 2025

Updated and modernized electrical schematics, including one-line diagrams and grounding details, using AutoCAD and EPLAN Electric P8, in compliance with CSA standards. Supported the relocation of a high-pressure pump by preparing cable lists and scheduling, conduit routing plans, bills of materials (BOM), disassembly plans, and commissioning documentation. Assisted maintenance and automation teams by identifying obsolete control components (PLC, HMI, MCC) and proposing compatible alternatives using Rockwell Automation. Participated in plant safety inspections (WHMIS) to verify compliance of electrical installations and contributed to engineering meetings to discuss ongoing projects and propose technical improvements.

Lead Electrical Engineering Team – Aero uOttawa- Ottawa/ON

Aug 2024 – Present

Designed and led the development of PCBs using Altium Designer for data acquisition (acceleration, airspeed, GPS, motor current, battery voltage) on an autonomous competition aircraft, optimizing debugging and performance. Implemented SPI, I2C, and UART protocols with proper layout techniques to ensure signal integrity. Selected components and collaborated on board layout to achieve strong signal integrity, reduced size, and a 34% cost reduction; developed prototype telemetry PCBs and a pressure sensor board for airspeed data transmission via CAN bus.

Sales Team Lead – Vantage Marketing Canada – Montreal/QC

May 2023 – Nov 2024

Set measurable sales goals for 14 team members and delivered bi-weekly performance updates; team generated over \$1.2 million in revenue from pest control contracts over a 4-month period (Summer 2024).

PROJECTS

UART: Designed and implemented a fully functional UART in VHDL on a DE-2 (Altera) board, managing real-time communication between transmitter/receiver modules and baud rate generation.

RC Car Motor Board: Designed a PCB to drive a 7.2V, 6A RC car, simulating circuits in Multisim and laying out schematics in Altium; selected components for gate drivers and power converters based on datasheets.

Programmed two ESP32 boards with ESP-IDF (C) for BLE communication, configuring ADC and PWM.

SKILLS

Technical Skills: AutoCAD, EPLAN Electric P8, Altium Designer, Multisim, MATLAB, PCB Design, Circuit Design, One-Line Diagrams, Grounding & Bonding Design, MCC/Switchgear/Transformer Sizing, Protection & Relaying Basics, Cable Scheduling & Conduit Routing, Rockwell Automation (PLC, HMI), Test Equipment (Oscilloscopes, Function Generators, Multimeters), Programming (Python, Java, C, C++, Assembly Language), Git

Soft Skills: Communication, Teamwork, Leadership, Project Management, Flexibility, Critical Thinking

Languages: English and French