LEONARDO FUSSER

FUTURE ENGINEER

(438) 763 - 5447
fusserleonardo@gmail.com
https://www.linkedin.com/in/leonardo-fusser/
Laval, Québec

OBJECTIVES

Computer engineering technologist, hardworking and motivated, always seeking for new opportunities. Three years of education in Computer Engineering Technology (CET) at Vanier College specializing in computer circuits, computer programming and computer networking.

SKILLS

Artificial Intelligence (AI) and Machine Learning (ML).
Digital Circuitry & Design.
- *FPGAs, CPLDs, ASICs, and µControllers.*

Object-Oriented Programming.
- *C, C++, Assembly, Verilog, and Python.*

Embedded Systems & Devices.
- *Raspberry Pi, Beagle Bone Black, RTOS, and Robotics.*

CAD Software & Design.
- *Autodesk EAGLE and Autodesk Inventor.*

Computer Servers.
- *HP ProLiant, Dell PowerEdge, and IBM System X.*

Computer Networking Theory & Design.
- *Additional knowledge in Cisco, Dell, and Brocade computer networking hardware.*

Computer Operating Systems.
- *Windows, Mac OS, and Linux.*

Computer Virtualization.
- *VMware ESXi, Proxmox, and Oracle.*

Simulations.
- *MPLAB Mindi, MATLAB, and Proteus.*

Various other hardware skills.
- *Electronics lab instrumentation equipment, such as digital multimeters, oscilloscopes, spectrum analyzers and bench power supplies.*

AC & DC Circuitry, Design and Repair.
Information Technology (IT).
Troubleshooting Skills.
Software Skills.
Analog Circuitry & Design.

EDUCATION

CERTIFICATE OF SCIENCE & TECHNOLOGY — SEPTEMBER 2022 – PRESENT
Completing prerequisite courses for undergraduate studies in computer engineering at Concordia University.

DIPLÔME D'ÉTUDES COLLÉGIALES (DEC) WITH HONOURS — AUGUST 2019 – JUNE 2022
Completed the Computer Engineering Technology program (243.A0) at Vanier College with a final grade average of 85%.

ACADEMIC PROJECTS

4-AXIS GANTRY CNC PLATFORM — WINTER 2022
Product Development II (247-606-VA) – Vanier College
- My custom-made 4-axis CNC machine controller utilizing a Raspberry Pi and my custom PCB running GRBL firmware for precise and automated control of a CNC machine.

REMOTE CONTROLLED RC CAR — FALL 2021
Product Development I (247-506-VA) – Vanier College
- My custom-made RC car project involved a unique mechanical design consisting of 3D printed parts and laser cut acrylic, as well as a custom electrical design featuring custom PCBs for the car and remote control.

SMALL SCALE SELF-PLAYING PIANO — WINTER 2021
Project Planning & Design (247-406-VA) – Vanier College
- My self-playing piano was developed with wireless control capabilities using Bluetooth technology, with an ESP32 facilitating Bluetooth communication, an Arduino Nano serving as the controller, and two custom PCBs designed for decoding controller logic and powering solenoids to play the piano keys.

RGB LED CONTROLLER — FALL 2020
Introduction to PCB Prototyping & Design (247-306-VA) – Vanier College
- My custom RGB color wheel featuring neopixel LEDs, custom mechanical components made from laser-cut acrylic, and my custom-designed PCB was created using an ATTiny85 as the controller and incorporating a piezo speaker to generate custom tones during color changes.

VOLUNTEER WORK

LAB SUPERVISOR (IEEE CONCORDIA) – *Concordia University* — JANUARY 2023 – APRIL 2023
- Taking part in the IEEE club as a lab supervisor. Responsible for the safety of others and ensuring smooth operation of the lab.

ROBOTICS CLUB – *Vanier College* — AUGUST 2019 – JUNE 2022
- Took part in the robotics club to build a functional robot for the annual CRC competition taking place around the province of Quebec.

Curriculum Vitae - © Leonardo Fusser 2023

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QUALITIES

- Communication skills, eagerness to learn, teamwork, flexibility, honesty, reliable and loyalty.

WORK EXPERIENCE

LAB-1 – *Electronics Technician* NOVEMBER 2023 – PRESENT

- As a technician at Lab 1, I excel in decontaminating, repairing, and troubleshooting medical-grade equipment, contributing significantly to the optimal functioning of these devices. My role includes the meticulous documentation of these processes through associated reports. Drawing from a rich experience at the research facility under Dr. Bruno Prud'homme at the Maisonneuve-Rosemont hospital, I continue to refine my technical expertise and maintain a heightened commitment to upholding the highest standards in healthcare technology and beyond. I am eager to apply my skills and passion for innovation in the dynamic realm of electronics.

MR. ÉLECTRONIQUE CET | MR. ELECTRONICS CET – *Self-employed Electronics Technician* JUNE 2023 – PRESENT

- As the founder and lead technician at Mr. Électronique CET | Mr. Electronics CET, I specialize in offering a comprehensive range of electronics services, including repairs, diagnostics, configuration, and installations. With a dedication to excellence, I bring years of expertise to ensure best class service. You can find insightful tutorials and behind-the-scenes content on my YouTube channel, Mr. ElectroniCET, and discover client testimonials on my Google Business page. Rest assured, all my work is insured through my membership with the OTPQ (l'Ordre des Technologues Professionnels du Québec), adhering and reflecting to the highest professional standards.

CANADIAN NUCLEAR SAFETY COMMISSION – *Citizen Software Developer* MAY 2022 – OCTOBER 2022

- Hired as a Citizen Software Developer, responsible for utilizing Microsoft Power Platform tools to design and develop an end-to-end asset management and procurement application using tools such as Microsoft Power BI, Microsoft Power Apps, Microsoft Power Automate, Microsoft SharePoint sites, and Microsoft Excel.

MICRO PCB Inc. | MICRO REPAIR Inc. – *Collegial Internship* APRIL 2022 – MAY 2022

- Worked as an Electronics Repair Technician & PCB Assembler, responsible for diagnosing and repairing customer electronic devices, through-hole component assembly, component sorting, preparation, soldering, and board verification to ensure high-quality standards.

NOTABLE AWARDS

PROGRAM AWARD – *Academic Dean & Director General of Vanier College* DECEMBER 2022

- Received the Computer Engineering Technology (CET) Graduating Program Award for exceptional academic performance and exemplary behavior, demonstrating dedication, hard work, and commitment to excellence in the field of computer engineering technology.

DEAN'S HONOUR ROLL – *Academic Dean of Vanier College* AUGUST 2021, MARCH 2022, and DECEMBER 2022

- Received awards for exceptional academic achievement during Winter 2021, Fall 2021, and Winter 2022 semesters, reflecting dedication, hard work, and commitment to academic excellence, with impressive averages of **91.25%**, **92.8%**, and **92.4%**, respectively.

HONOUR'S LIST – *Academic Dean of Vanier College* APRIL 2021

- Received an award for academic achievement during Fall 2020 semester, with an impressive average of **89.28%**, reflecting dedication, hard work, and commitment to academic excellence.

CERTIFICAT DE CITOYENNETÉ SOCIALE – *Ville de Laval* MAY 2018

- Received an award for significant volunteer contributions during high school, acknowledging dedication, hard work, and commitment to serving the community and making a positive impact, with gratitude for the opportunity to contribute to the community and honor for the recognition.

LANGUAGES

- English *(first language)*, French *(second language)*, and Italian *(third language)*.

REFERENCES

- Available upon request.