Simon Roy

https://www.linkedin.com/in/simonroy99/
GPA : 4.15/4.3

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Languages: French, functional English, German initiate
Student member of the OIQ

Training

Bachelor of Software Engineering **2021 -2024**
Electrical engineering study **2020-2021**
École de technologie supérieure (ÉTS), Montréal, QC

Diplôme d'études collégiales en technologie de l'électronique **2020**
Specialization in computers and networks
CEGEP de Lanaudière à Joliette, QC

Special knowledge

Programming languages: Python, R, Java, C, C++, C#, JavaScript, HTML, CSS, MATLAB, VHDL

Software: Visual Studio Code, Eclipse, Android Studio, Fusion360, Unity, Packet Tracer, Wireshark

Computers: Windows (home, server 2019), Linux, VMWare

Other : Tensorflow (Certifié), Qiskit, Git, Django, OpenCV, Node.js, ROS2, PostgreSQL,

Professional experience

Software Development Intern **FALL 2021**
Orolia, Montréal (Skydel)

- Processing and generation of satellite signals.
- MATLAB, Python and C++ programming.
- Using the Agile method.

Circuit design intern **WINTER 2021**
Lion électrique, Saint-Jérôme

- Circuit simulation and debugging.
- Program and analyze microcontrollers
- GIT implementation

Professional experience

Technology Analyst **SINCE WINTER 2020**

Équi-Tél Inc., Mascouche

- ► Network design, telephone system programming
- ► Server maintenance (Linux)
- ► Implementation of new technologies, IOT

Science club

Software lead **2021 - 2022**

Walking Machine, ÉTS, Montréal

Mission : *Develop robots capable of performing simple domestic tasks and helping people with reduced mobility.*

- ► Participation in the reorientation of the club
- ► Creation of a docker infrastructure
- ► ROS2

Personal projects and distinctions

Projects

- ► IOT server (Python, Django, full stack, IOT, Over the air)
- ► Solving games with NEAT-like AI (Python, pygame, object-oriented)
- ► Cryptocurrency exchange interface (QT, python, tensorflow)
- ► Robot sweeper (Obstacle avoidance, circuit design, C)
- ► Facebook "like" counter frame (Arduino, IOT)
- ► Magic wand lighting a lamp (Accelerometer, radio, Arduino, 3D printing, C)
- ► Solar Bike and BLDC Motor Controller (Circuit Design, µC, C Interrupt)
- ► Mobile applications (Labyrinth, financial tools, …)

Achievements

- ► 3rd place at the BIG quantum Hackathon (technical part) 2022
- ► TensorFlow Developer Certificate 2022
- ► Internship Productivity Scholarship (Electric Lion) 2022
- ► Recipient of an Excellence Scholarship from the MES 2021
- ► Design of a tool to test health literacy at the Body Hack competition 2021
- ► First place in NASA Space Apps Challenge (local, Halifax) 2020
- ► Gene H. Kruger Fellowship Recipient 2019
- ► Student representative on the school board of (JBM and CRLJ) 2015-2018