

Danny Sauval

19 Résidence du Parc
91300 Massy, France
(438) 799-4478 / +337.81.25.52.00

sauvaldanny@gmail.com
<https://www.linkedin.com/in/danny-sauval/>
<https://dannysauval.com/mon-cv/>

Skills

- Languages : french (mother tongue), english (fluent, technical).
- OSs : Windows, Linux, macOS.
- Programming: C, C++, C#, Python, Qt.
- Embedded systems : PIC (Microchip), I2C, UART, Altium, KiCAD, Arduino, Raspberry Pi.
- Technical : SLAM, LIDARs, ROS (Kinetic).
- Software : MS Visual Studio, MPLAB X IDE, Unity, MS Office, LaTeX, Solidworks, Matlab.
- Project management, team leading.
- Other : Machine learning, computer vision, haptics.

Work experience

Project manager engineer

December 2020 - Now

Orasis-EAR (startup), (Paris, France)

- Development of a device to diagnose and re-educate binocular vision.
- Embedded system: PIC (Microchip), UART, I2C, BLE.
- GUI : C++/Qt for the PC part / Kotlin for the Android part.
- Project and team management, reports, regulations, exchange with external actors, strategic watch.

Computer and electronics repairer

May 2020 - November 2020

Danny SAUVAL, (Île de France, France)

(7 months)

- Reverse engineering PCBs.
- Microsoldering using a microscope. Replacing components.
- Management : communication, customer relations, billing.

Robotics engineer

October 2019 - April 2020

Neom (Vinci Construction), (Montsoult, France)

(6 months)

- Simulation then integration of a holonome mobile base using a SLAM algorithm associated with 2 LIDARs.
- Fusion of odometry sensor and IMU.

Demonstrator

May 2019 - August 2019

École de Technologie Supérieure, (Montréal, Québec)

(4 months)

- Supervision and monitoring of 74 students in bachelor's degree in computer science.
- Writing of the grading system and evaluation of students.

Laboratory technician in the field of haptics
École de Technologie Supérieure, (Montréal, Québec)

November 2018 - June 2019
(8 months)

- Programming an interface between 3 devices on Unity : *LeapMotion*, *UltraHaptics*, *Basslet*.
- Making digital information tangible.

Software Engineer
daisy, (Yôga, Tokyo, Japon)

June 2018 - August 2018
(2 months)

- 3D face capture project with a 3D camera.
- Create a 3D scanner (Intel RealSense D415, Kinect v1).
- 3D point cloud triangulation and data processing with Unity.

Education

Master in Automated Manufacturing Engineering
École de Technologie Supérieure, (Montréal, Québec)

2018 - 2020
(in co-diplomation)

- Machine learning, Human–Computer Interaction, computer vision, biometric systems, management of innovative projects, strategic watch.

Degree in Robotics Engineering
Polytech Sorbonne, (Paris, France)

2016 - 2020
(in co-diplomation)

- Mathematics, programming, computer science, computer vision, image processing, mechanics, electronics, signal processing, CAO.

Study project

Project manager
Polytech Sorbonne, (Paris, France)

September 2017 - June 2018
(10 months)

- Writing product specifications.
- Programming an autonomous navigation for a robot with a 3D camera.
- Study the system kinematics.
- Analyze and process point clouds.

Student Club

InVivo's Vice-président (musical association)
Polytech Sorbonne, (Paris, France)

September 2016 - June 2017
(10 months)

- Organization of karaokes and concerts.
- Computer Assisted Music classes.
- Managing a choir.
- Communication tools.