Danny Sauval

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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.

Laboratory technician in the field of haptics   **November 2018 - June 2019**
École de Technologie Supérieure, (Montréal, Québec)   (8 months)

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

Software Engineer | **June 2018 - August 2018**
daisy, (Yôga, Tokyo, Japon) | (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 | **2018 - 2020**
École de Technologie Supérieure, (Montréal, Québec) | (in co-diplomation)

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

Degree in Robotics Engineering | **2016 - 2020**
Polytech Sorbonne, (Paris, France) | (in co-diplomation)

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

Study project

Project manager | **September 2017 - June 2018**
Polytech Sorbonne, (Paris, France) | (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) | **September 2016 - June 2017**
Polytech Sorbonne, (Paris, France) | (10 months)

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