

**BOUSRI Abderraouf**

Adresse : 78960 Voisins le Bretonneux.

+33 7 80 77 80 32 Ou +33 7 80 94 62 62 (Temporary)

Email : [abderraouf.bousri@gmail.com](mailto:abderraouf.bousri@gmail.com) Portfolio : [my projects](#)

[Linked in](#)

Age : 34 years.

International driver's license : **Type B.**

See some results in [Videos Here..](#)



# C++ SOFTWARE DEVELOPER

## Education

**2016** Master 2 in Robotics *University of Montpellier 2 at (LIRMM).*

**2015** Control Engineering Degree, *Ecole Nationale Polytechnique (ENP).*

## Certificates

**2024** Certificate of graduation from (**The Ultimate C# Series** : (Code with Mosh). [Certificate here.](#)

**2023** CPA - C++ Certified Associate Programmer (CPA : Issued by C++ institute). [Certificate here.](#)

**2023** CPE - C++ Certified Entry-Level Programmer (CPE : Issued by C++ institute). [Certificate here.](#)

**2023** Certificate in C++ programming (CS107 : from Saylor Academy). [Certificate here.](#)

**2021** Certificate in Cybersecurity (CompTIA Security+). [Certificate here.](#)

**2020** Certificate of graduation from Complete Python Mastery (Code with Mosh). [Certificate Here.](#)

## Work Experience

**Apr 2024** C++ - Cyber Security Engineer at Volt for Schneider Electric.

**Sept 2023**

- \* Part of the Control Expert team for the development of a PLC programming tool.
- \* Responsible for the development of new features that concern the security aspect of that tool.
- \* Bug fixes, review and optimization of lines of code in C++/C according to MISRA standards.
- \* **Skills** : C++, C#, Git, Visual studio, MFC, COM Objects, cyber security.

**Avr 2023** C++ Developer at Altim France.

**Oct 2022**

- \* Optimisation and development of a GUI application for a chromatique adaptation module for images.
- \* Update failing features and make them match the specifications.
- \* Source code documentation.
- \* **Skills** : Linux Git C++ C Qt Cmake.

**Aug 2022** Devolper - Control Engineer for Expleo (**5years**).

**Jul 2017**

1. Ingénieur Cybersecurity - Developer.
  - \* Development of a graphical tool for data anonymisation (Qt and Python).
  - \* Implementation of a data encryption algorithm (Cp-ABE) in C / python.
  - \* **Skills** : C/python, Cryptographie (Cp-ABE), Qt, Linux, Git, Qml, CAN.
2. 6 months Training **Product Security** (field : Cyber Security) **AJC Classroom (Serval-Concept)**
  - \* **Skills** : Networks, Linux, C/C++/Python, Cryptography, Pentest Web, OS Hardening, Shell scripting, Docker, PowerShell, Linux/Windows, IoT Security, Metasploit, Nmap, Burp Suite, Wireshark...
3. C++ Software development (on Qt) for Renault.
  - \* Development of a graphical user interface under Qt Creator (C++).(automation of validation tasks)
  - \* Implementation of new features for the automation of specific tasks.
  - \* **Skills** : C++ Qt-Creator CSS Cmake.
4. Trainer - Technical Lead, for Peugeot.
  - \* Supported a team of 4 engineers to become autonomous on a project on ADAS systems..
  - \* **Skills** : Python C Matlab CarMaker Simulink TCL Diagalyser CANalyser CANape CANFD Ethernet.
5. Control law design for ADAS systems for Renault.
  - \* Validation/Optimization of ADAS control law models (speed controllers and limiters).
  - \* **Skills** : Simulink Matlab Python VBA.

6. **ADAS CAN Gateway developer for Renault.**
  - \* Development of small **MBDs** to test the behavior of the sensors and actuators on the car mule.
  - \* Developing scripts on Matlab to automate some analysing process
  - \* **Skills :** [Matlab/Simulink](#) [Python](#) [CANalyser](#) [CANoe](#) [Orcas](#) [DSpace](#) [DDT2000](#) [CAN/CANFD](#).
7. **Software developer (ADAS systems) for Renault.**
  - \* Development of applications and Scripts (**Matlab,C++**) to automate tasks for the team.
  - \* Developement of GUI (**Matlab,Qt**) for specific tasks.
  - \* **Skills :** [C](#) [C++](#) [Matlab](#) [Qt](#) [MTS](#) [VdStreamer](#) [Dataviewer](#) [Dv-tool](#).

[Juil 2016](#) Four months of Internship at the **LGP** laboratory of **ENIT** (*École Nationale d'ingénieurs de Tarbes*).**title :**  
[Mar 2016](#) *Modelling and Control of co-actuated systems : Application to an electrically stimulated musculoskeletal system.*  

- \* Modeling of the musculoskeletal system (quadriceps and hamstring).
- \* Design and validation of a control law using sliding mode control under simulation by sliding modes.
- \* **Skills :** [MATLAB](#), [Scilab](#), [Simulink](#).

[Mar 2016](#) Two months project carried out at the *Laboratory of Informatics, Robotics and Microelectronics of Montpellier*  
[Jan 2016](#) (**LIRMM**). Subject : *advanced control of an exoskeleton.*  

- \* Mathematical modeling of the exoskeleton.
- \* Design of control laws by : **Backstepping**, **Sliding Modes**, **dynamic control**.
- \* Simulation of results using *Matlab* and experimentation.
- \* **Skills :** [C/C++](#), [Matlab](#), [Simulink](#)

[Juin 2015](#) Nine-months intership in the **CDTA** (*Advanced Technologies Development Center*) on a subject entitled : *Image*  
[Sept 2014](#) *based control of a mobil robot car type platform, with ROS (Robot Operating System) based on fuzzy control*  
for *visual servoing*.  

- \* Detection of a line drawn on the ground with a USB camera, using the **VISP** library.
- \* Line tracking and obstacle avoidance using an LMS511 laser sensor, **See Results** [here](#).
- \* **Skills :** [C/C++](#), [Python](#), [ROS](#), [Linux](#), [ViSP](#), [visual servoing](#), [fuzzy logic](#), [AI](#). [here](#).

## ☀ Projctes [for Portfolio click here].

[2025](#) Development of a Text Editor (**RaTeX**) in **C++** with **Qt** (version 1). [see demo video here..](#)  
[2025](#) Development of a **2D Tetris Game** in **C++** using Raylib – see demo video here.[see demo video here..](#)  
[2025](#) Development of a **Widget Library** for building **C++** GUIs with SFML.  
[2025](#) Development of a **Media Player** (Audio, Video, Recording) in **C++** with **Qt** (in progress).  
[2023](#) Development of a **2D Snake Game** in **C++** with **SFML** (version 1). [see demo video here..](#)  
[2025](#) Development of a **Desktop Analog Clock** in **C++**. [see demo video here..](#)  
[2023](#) First version of a **2D Video Game** developed in **C++** with **SFML**, [see demo video here..](#)

## ☀ Technical Skills

C/C++	*****	Simulink	*****	Qml	*****	Arduino	*****	ROS	*****	Robotics	*****
C#	*****	Cybersecurity	*****	Qt	*****	Linux	*****	Docker	*****	Script bash	*****
Python	*****	Visual Studio	*****	Git	*****	PLC	*****	SQL	*****	Html/CSS	*****
Matlab	*****	PowerShell	*****	Delphi	*****	Scilab	*****	LaTeX	*****	JavaScript	*****
Pascal	*****	Commande	*****	ADAS	*****	Step7	*****	IA	*****	Embeded	*****

## ☀ Languages

Français \*\*\*\*\* English \*\*\*\*\* Arabic \*\*\*\*\* Spanish \*\*\*\*\* German \*\*\*\*\*

## ☀ Interests

Sports (**Kung-Fu** : Participation in competitions of **Sanshou**, **Aikido**, **Swimming**, **Boxing**), **Chess**, **Drawing**.