BOUSRI Abderraouf
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Linked in   **Age :** 34 years.
International driver's license : **Type B**.
See some results in **Videos Here..**

C++ SOFTWARE ENGINEER

Education

2016 **Master 2** in **Robotics** *University of Montpellier 2* at **(LIRMM)**.
2015 **Control Engineering Degree**, *Ecole Nationale Polytechnique (ENP)*.

Certificates

2024 Certifacate 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 **Cyber Sécurité** (**CompTIA Security+**). **Certificate here**.
2020 Certifacate of graduation from Complete **Python** Mastery (Code with Mosh). **Certificate Here**.

Work Eperience professionnelles

Aprl 2024
Sept 2023   **C++ - Cyber Security Engineer** at **Volt** for **Schneider Electrique**.
* Be part of the Control Expert team for the development of a PLC programming tool.
* Be 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
Oct 2022   **C++** Developper at **Altim France**.
* Optimisation and debut 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.

Août 2022
Jul 2017   **Devolper - Control Engineer** for Expleo **(5years)**.

1. Ingénieur **Cybersecurity - Developer**.
   * Development of a graphical tool for data anonymisation (Qt and Python).
   * Implémention 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, Script-shell, Docker, PowerShell, Linux/Windows, Security IOT, metasploit, nmap, burp-suite, wireshark...

3. ***C++ Software development (on Qt)*** for Renault.
   * Development of a graphical user interface under ***Qt Creator (C++)***.(to automate validation tasks)
   * Implementation of new features for the automation of specific tasks.
   * **Skills :** C++ Qt-Creator CSS Cmake.

4. ***Trainer** - technical referent, for **Peugeot***.
   * Ensure the autonomy of a team of 4 people 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 regulators and limiters).
   * **Skills :** Simulink Matlab Python VBA.

6. **ADAS** *CAN Gateway developer for Renault.*
   * Developement of small **MBDs** to test the behavior of the sensors and actuators on the car mullet.
   * 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.*
   * Developement of applications and Scripts (**Matlab,C++**) to automate tasks for the team.
   * Developement of Gui (**Matlab,Qt**) for a specified tasks.
   * **Skills : C C++ Matlab** Qt MTS VdStreamer Dataviewer Dv-tool.

Juil 2016
Mars 2016
Four months of Internship in the **LGP** laboratory of **ENIT** (*École Nationale d'ingénieurs de Tarbes*).**title** :
Modelling and Control of co-actuated systems : Application for a musculoskeletal system Electrically stimulated.
   * Modeling of the musculoskeletal system (Quadriceps and Hamstring).
   * Synthesis and validation of a control law under simulation by sliding modes.
   * **Skills :** Matlab Scilab Simulink.

Mars 2016
Jan 2016
2months for a project prepared at the *Laboratory of Informatics, Robotics and Microelectronics of Montpellier* (**LIRMM**). Subject : *advanced control of an exoskeleton.*
   * Mathematical modeling of the exoskeleton.
   * Synthesis of control laws by : **Backstepping**, **Sliding Modes**, **Dynamic Command**.
   * Simulation of results by *Matlab* and experimentation.
   * **Skills :**C/C++ Matlab Simulink

Juin 2015
Sept 2014
9 months of intership in the **CDTA** *(Advanced Technologies Development Center)* on a subject entitled : *Image based control of a mobil robot car type*, with **ROS** *(robot operating system)* based on ***fuzzy control*** as a method for ***visual servoing***.
   * Detection of a line drawn on the ground with a USB camera, using **VISP** library.
   * Line tracking, and obstacle avoidance using a laser sensor (LMS511), **See Results** here.
   * **Skills :** C/C++/Python, ROS, Linux, VISP, Asservissement visuel, logique floue, IA. here.

✺ Mini Projects

2024 Developement of a média player (Audio, Video, Record) in **C++** with **Qt** (in progress)
2023 Un **Snake Game** 2D developped in **C++** with the **SFML** library (version 1), **see results here..**
2023 My first version of 2D video game developped in **C++** with the **SFML** library, **see results here..**
2016 Control of Multi-stack approach of a robotic assembly cell with a Multi-stack approach (C++). **see results here..**
2015 Control by fuzzy logic of a camera with 2 DOF for to track an object using VISP in (C++). **See results here..**
2015 Control of an autonomous mobile robort using ROS - for line tracking in **C++**, **see results here..**
2014 Speed control of a DC motor With Arduino using L298N.
2013 Realization of a robot follower of lines based on microcontroller with the sensor CNY70 in (C langage).

✺ 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	*****	Anglais	*****	Arabe	*****	Espagnol	*****	Allemand	*****

✺ Interests

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