

## Benabadji Mohammed Salim

Portfolio : <https://salim97.github.io>  
Github : <https://github.com/salim97>

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### TECHNICAL SKILLS

**Languages :** C, C++, QML, C, Java, Dart, Shell bash, HTML, Python  
**Database :** Mysql, SQLite3, NoSQL firebase  
**Tools/Framework :** Qt, Flutter, Arduino-lib  
**Familiar :** Java, Javascript, HTML, CSS, php  
**General :** Data Structures, Algorithm, Object Oriented Programming, Code Review, Testing, Debugging, Deployment, Design Patterns, Agile  
**Version Control Systems :** Git, Github, Gitlab  
**IDE Text Editors :** Qt Creator, VScode, Atom, Nano, Android Studio  
**Operating Systems :** Linux, Windows  
**Embedded devices :** ESP32, ESP8266, PIC16F1824, ATmega326, ATtiny85, SBC

### EDUCATION

**Baccalaureate**, Math  
*Mustafa Hadem Oran*, Oran  
2012 - 2015

**Bachelors Degree**, Computer Science  
*University science and technology oran*, Oran  
2015 - 2018

**Master Degree**, Computer Science  
*University science and technology oran*, Oran  
2018 - 2020

### EXPERIENCE

**Flutter Firebase** building mobile application using firebase cloud functions and flutter framework.

**QT Network** Network programming using TCP/UDP.

**C++ Meta Class and Macro** Writing small code that will generate more code to get the the job. ( easyORM, Wiring Pi QT )

**Microncotroller programming** Code optimisation

### PROJECTS

**University Graduation Project Air Quality System** **October 2020**

University Graduation Project Air Quality System this is a contributed air quality system made in algeria from people to people, inspired from other ready to use solution.

- **Technology/Tools:** Flutter Dart, Google maps, Firebase, Rest API, ESP32, ESP8266
- **Link :** [github.com/salim97/University-Graduation-Project-Air-Quality-System](https://github.com/salim97/University-Graduation-Project-Air-Quality-System).

**Flutter Android**

**July 2019**

Building Mobile application using flutter and using firebase as backend.

- **Technology/Tools:** Flutter Dart, Google maps, Firebase, Rest API
- **Link :** private project.

**WiringPi QT**

**Apr 2019**

WiringPi: An implementation of most of the Arduino Wiring functions for the Raspberry Pi. WiringPi-Qt : Adding Qt Signals Slots to WiringPi.

- **Technology/Tools:** QT C++, QML
- **Link :** [github.com/salim97/WiringPi-Qt](https://github.com/salim97/WiringPi-Qt)

## Smart Home

May 2018

That was my graduation project Building smart home from scratch, programming the backend ( Raspberry Pi using Qt C++ and Python ) and frontend with QT C++ and QML.

also building custom device using microcontrollers and sensors to record data and send it in network

- **Technology/Tools:** C, C++, QML, Python, ESP8266, Atmega326
- **Link :** private project.

## EasyORM

Jul 2018

easyORM is easy library to create an equivalent of C++ class in SQL table ( sqlite3, mysql, ... ) and it allow you to use ORM design pattern, It is completely compatible for use with QML and C++ .

- **Technology/Tools:** QT C++, QML
- **Link :** [github.com/salim97/easyORM](https://github.com/salim97/easyORM)

## Inventory Management Software

Mar 2016 - 2018

Building inventory management software for local clients.

- **Technology/Tools:** QT C++
- **Link :** private project.

## CERTIFICATION .

- **JavaScript Algorithms and Data Structures** by freecodecamp.org  
Verify : [freecodecamp.org/certification/benabadjisalim/javascript-algorithms-and-data-structures](https://freecodecamp.org/certification/benabadjisalim/javascript-algorithms-and-data-structures)
- **Introduction to Data Science in Python** by udacity.com  
Verify : [github.com/salim97/salim97.github.io/blob/master/ud803-track-1mac.pdf](https://github.com/salim97/salim97.github.io/blob/master/ud803-track-1mac.pdf)
- **Flutter - Advanced Course** by udemy.com  
Verify : [udemy.com/certificate/UC-LEW1IHDU](https://udemy.com/certificate/UC-LEW1IHDU)
- **Learn ESP8266 for IoT** by udemy.com  
Verify : [udemy.com/certificate/UC-Y3O5HG9E](https://udemy.com/certificate/UC-Y3O5HG9E)

## RELEVANT COURSES

- Arduino and electronics
- Linux Kernel Driver programming
- Computer Graphics
- Data Structures and Algorithm
- Introduction to Database Management
- Programming in Java
- Operating System
- Computer Networks

## INTERESTS

- Associations and Clubs: Udev (University Club).
- Others: Traveling, Meeting new peoples, sharing knowledge, Learning new languages.

## COMMUNICATION

/ PUBLICATION • **10 simple tricks to optimize your C code in small embedded systems** , published on [embedded.com](https://embedded.com)  
Date: AUGUST 14, 2019  
Verify : <https://www.embedded.com/electronics-blogs/say-what-/4462228/10-simple-tricks-to-optimize-your-C-code-in-small-embedded-systems>

- **Simplify the battery gauge with a 1-dot bar graph display** published on [edn.com](https://www.edn.com)  
Date: APRIL 17, 2020  
Verify : <https://www.edn.com/simplify-the-battery-gauge-with-a-1-dot-bar-graph-display>

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- **Low-power flashing LED thermometer** published on [siliconchip.com.au](http://www.siliconchip.com.au)  
Date: September 2020  
Verify : <http://www.siliconchip.com.au/Articles/ProjectIndex>

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- **ORing low-voltage sources simply and cheaply on 3.3V microcontroller boards** published on [edn.com](http://www.edn.com)  
Date: NOVEMBER 12, 2020  
Verify : <https://www.edn.com/oring-low-voltage-sources-simply-and-cheaply-on-3-3v-microcontroller-boards>