

Benabadji Mohammed Salim

Portfolio : <http://salimbenabadji.com>
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

COMMUNICATION

/ PUBLICATION • **10 simple tricks to optimize your C code in small embedded systems** , published on 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>

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

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

• **Displaying digits using single RGB LEDs** published on [siliconchip.com.au](https://www.siliconchip.com.au)
Date: March 2021
Verify : <https://www.siliconchip.com.au/Articles/ProjectIndex>

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.

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

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

Inventory Management Software

Mar 2016 - 2018

Building inventory management software for local clients.

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

EXPERIENCE

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

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

CERTIFICATION .

- **JavaScript Algorithms and Data Structures** by freecodecamp.org
Verify : freecodecamp.org/certification/benabadjissalim/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
- **Flutter - Advanced Course** by udemy.com
Verify : [udemy.com/certificate/UC-LEW1IHDU](https://www.udemy.com/certificate/UC-LEW1IHDU)
- **Learn ESP8266 for IoT** by udemy.com
Verify : [udemy.com/certificate/UC-Y3O5HG9E](https://www.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.