

ABDALLAH MEDDAH

Seeking a 6 month internship starting from March 2020

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WORK EXPERIENCE

Embedded IoT Devices Engineer (Freelance)

Art-IA Engineering (Signed a Non Disclosure Agreement)

Aug 2019 – November 2019 Estonia

- Conceived and Designed an ESP32 based Data Logger and actuator for a Light Therapy Machine.
- Developed an Android/IOS application to tune and control the Machine over MQTT and read BLE beacon's data.
- Implemented the MQTT protocol to handle the high data rates necessary to the closed loop control system.
- Setup an AWS Server to host an MQTT broker using both MQTT and web-sockets and Web application as an admin-panel.

ESP32 Multi-threading C/C++ NodeJs AWS Phoneygap

Erasmus+ Telecommunication Engineering Internship Grant

SATIE Laboratory

May 2019 – Aug 2019 France, Gif-Sur-Yvettes

- Conceived a Compact System With Telemetry To Record A Rocket Flight.
- Created a multi-platform platform for the flight data visualization.

MbedOS 5 ARM C/C++ Data Aquisition NodeJs Altium

Embedded Systems Engineer (Freelance)

AlucentX

Nov 2018 – May 2019 USA, Miami

- Conceived ring controllers for VR gaming on Smart Glasses.
- Led a software engineering team in the development of an optimized Linux distribution for VR gaming (based on Node-OS).

Digital Motion Processing Bluetooth Low Eenergy NodeOS

C++

Embedded Systems Engineer (Freelance)

PAEPACK

sep 2018 – Nov 2018 USA, Inglewood

- Conceived an ESP32-based PLC to control an industrial conveyor system.
- Developed a web-application running on AWS for data visualization and Over The Air configuration of conveyor systems for multiple users.

C/C++ Eagle CPanel PHP7 Cordova Power Electronics

EDUCATION

Master 2 Networking and Telecommunications

Paris-Saclay University

Sept 2019 – Ongoing France, Gif-Sur-Yvettes

Second Year in Electronics Engineering School (BAC+4)

ACHIEVEMENTS



Ranking Second in Eurobot 2018

Eurobot is an international robotics competition organized by planet science held in France in which I led a team for 22 Engineering students and ranked 2nd internationally

Leadership Teamwork Work Ethic
Project Management Decision Making



Fablab Manager

I organized many local competitions and pushed a lot of younger minds to invest their time in learning.

Social Skills Motivation Courtesy

SKILLS

Internet Of Things

- MQTT Protocol, MQTT broker setup, Mesh Network Design.
- AWS IoT and Microsoft Azure IoT setup.

Hardware

- ESP programming using ESP-IDF, Xtensy-based mcu, ARM-based mcu (STM32x, Cortex ...)
- Data Logger Design, Programmable Logic Controller design, VHDL, Power electronics.

Robotics

- Closed Loop Control, SLAM robotics
- Accelerometer based system (Kallman Filters, quaternion based algorithms).

Software (Backend)

- AWS server/CPanel setup (web hosting, Cloud hosting, Restful API, Redis, SQL ..).
- Linux Kernel API, POSIX, V system, Clustering, Multi-threading, FreeRTOS.

Software (Frontend)

- Multi-platform Apps (Cordova, PhoneygapBuild, Ionic, QT).

LANGUAGES

English TOEIC (975)

French C2

Arabic Native

OTHER INTERESTS

Basketball Philosophy Astronomy
Quantum Mechanics Classical Music

Ecole National Polytechnique Alger

 **Score: 13.53/20**

 Sept 2017 - Aug 2019

 Algeria, Algiers

National Entrance Exam to the Grandes Ecoles d'Ingenieur

Ecole National Polytechnique Alger

 **Rank: 22/1500**

 Sept 2015 - Aug 2017

 Algeria, Algiers