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Languages:

Arabic: Bilingual
French: Advanced
English: Advanced

Hobbies:

Fishing
Video-games
Cooking

Tools / Software :

C / C ++, Java, Python, Bash
HTML, CSS, JavaScript
VHDL, SQL, Assembler
Linux, Windows

Certifications:

- Industrial IoT on Google Cloud
- Cisco CCNA 1 & 2
- Networking in Google Cloud
- LINUX LPI-101 : 750/800
- TOEIC : 870/990

Knowledge :

- IoT: Application and Communication Protocols (MQTT, AMQP, XMPP, CoAP, LoRa, LoRaWan, SigFox, NB-IoT, 6LoWPAN, MEC)
- Designing embedded systems with UML
- Network Softwerization (SDN, VNF)
- Wireless Access technologies (Wi-Fi)
- Mobile Networks(4G,3G et 2G)

Dhiaeddine ALIOUI

Engineer in Telecommunication
Master in IoT

EDUCATION

Engineering school and research center in digital sciences
EURECOM Sophia Antipolis - France, 2018-2020
Master in Internet of Things (IoT).
Studies: IoT, Clouds, Machine Learning, Mobile Networks, Operating Systems.

Engineering school
Higher School of Communications of Tunis (SUP'COM) Tunis - Tunisie, 2016-2018
Engineering cycle in information technology, double degree with EURECOM,
Studies: Telecommunications, Computer science, Networks, Embedded Systems.

Preparatory cycle
Preparatory Institute for Engineering Studies El Manar Tunis - Tunisie, 2014-2016
Specialty : Technology

EXPERIENCE

Schlumberger Clamart - France, March – August 2020
End-of-studies internship
Create a simulator of a seismic data acquisition system using a Micro-services architecture in order to study the scalability and performance of such architecture versus the used monolithic architecture. The simulator contains micro-services for data collection and processing, a load balancer, a database, multiple REST APIs and a web server.
Keywords: Python, Nginx, Flask, Shell, PostgreSQL, Google Protobuf, HTML, CSS, JavaScript, NFS, Micro-services, Raspberry Pi 4, Resources monitoring.

PROJECTS

Development of an SDN controller supporting PFCP protocol for 5G Oct 2019 – Feb 2020
EURECOM
Develop an SDN controller with a Southbound API capable of communicating with the User Plan equipment via the PFCP protocol.
Keywords : Software Defined Networking (SDN), 5G, Southbound API, Python, Flask,

MEC LORA service for IoT March - Juin 2019
EURECOM
Deploy an Open Source IoT LORA Server as an MEC Service and Create an API REST allowing IoT applications to use the deployed service.
Keyword : Mobile Edge Computing, LoRa, MQTT, REST API.

Automated code generator for Arduino October 2018 – February 2019
EURECOM
Adapt an existing Open Source code generator called "TTool" for Arduino boards.
Keywords: TTool, AVATAR, State Transition Diagram, FreeRTOS, Arduino, Threads.

Course project: Operating systems October 2018 – February 2019
EURECOM
Design and program a basketball player robot with Lego-EV3 (team member winner of the competition)
Keywords: C / C ++, Linux, Compiler, Threads, Mechanical Design.

Telecoms systems integration project January - Juin 2018
SUP'COM
Design and develop an IoT application based on wireless sensor networks for the acquisition and control of agro-environmental data.
Keywords: IoT, C, LINUX, Contiki, Zolertia Z1, Network of sensors.