

Yassine Hammadi

SOFTWARE ENGINEER · IoT ENGINEER

Sherbrooke Canada

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I am a hard working individual with good problem solving skills, highly people-oriented. Currently focused on IoT and health engineering. Good experience and skills in robotics development environment like ROS and network solutions SDN.

Education

Engineering Faculty-UdeS , DESS 2e in Computer Engineering	DESS	2019 - 2020	Sherbrooke, Canada
INPT, Engineer's degree in Computer Engineering	Engineer	2018 - 2020	Rabat, Morocco
ENSIAS -UM5, Master's degree in Internet of Things and Mobile Services	Master	2017 - 2019	Rabat, Morocco
FST -UMI, Bachelor's degree in Software Engineering	Bachelor	2016 - 2017	Errachidia, Morocco
FST-UMI, Diploma in Mathematics, Computer Science, Physics	DEUST	2014 - 2016	Errachidia, Morocco

Skills

programming	Experienced: Java , C/C++ Familiar: Matlab, Python, Javascript, Bash, HTML/CSS, PHP, XML, JSON
Tests tools	Junit 4 / 5
APIs	SOAP, RESTful
Automated tools	Git, SVN
Agile Methodology	Scrum, Kanban, Scrumban, Lean Software Development
Database tools	Merise, Microsoft SQL Server, Ms Access , MySQL, MongoDB
Networks	SDN - ODL, Floodlight, Mininet, OpenFlow, OVS, ARP, STP, VLANs, Load Balancing
Robotics tools	ROS, rviz, Intel Realsense
programming tools/IDE	Jenkins, Sonarqube, Eclipse, Visual Studio Code, Atom, Xcode
Operating systems	MacOS, Windows Server, Windows 10, Linux ubuntu, Linux Centos
Other	design patterns, Machine Learning, Artificial intelligence, Games Theory , OpenCV , SAMBA Unix
Languages	Native: Arabic Fluent: French Medium: English

Projects

Intel depth Camera | Head Pose Estimation

CdRV - Canada

ENGINEERING FACULTY | LINKEDIN

Jan. 2020 - Aug 2020

- Using ROS wrapper for OpenFace which allows to extract head pose information from an RGB-D Stream created by Realsense D415.
- Record simultaneous data from two D415 Cameras .
- Alignment and calibration of two Cameras.
- We are using checkerboard to make a reference point of the system which allows us to calibrate the system.

ROS C++ rviz Catkin Realsense D415 OpenFace Libsense SDK OpenCV Calibration RGBD Git matlab LaTeX

DrawUs | Graphics editor

Sherbrooke - Canada

ENGINEERING FACULTY

Aug. 2019 - Dec. 2020

- Building paint application using java programming .

JAVA JavaFx SCRUM Kanban ScrumBan software development Junit 5 SVN LaTeX

PACMAN | 2D Game

Sherbrooke - Canada

ENGINEERING FACULTY | GITHUB

Jan. 2019 - Jul. 2019

- Building PACMAN game with java programming.
- Using SCRUM framework and LEAN software.

JAVA Swing SCRUM LEAN software development Junit 5 Git LaTeX

SDN | Load Balancing

INPT- Morocco

ENSIAS | GITHUB

Jan. 2019 - Jul. 2019

- Implementing load balancing in an SDN network.
- In the context of our project, we evaluate the performance of an SDN network using a Load Balancing algorithm and the floodlight controller.

SDN Controller floodlight Load balancing Dijkstra's Algorithm Python LaTeX

E-SERVICE | Online Services Project

ENSIAS |  GITHUB

- Online Services Project is a web application to facilitate Internet users to collect data on the various services provided.

MEAN MongoDB Express Angular.js Nodejs 

Rabat - Morocco

Nov. 2018 - Apr. 2019

WIMAX| Simulator of the 802.16e WIMAX

ENSIAS

- Development of a Behavioral Simulator of the 802.16e WIMAX Standard.

Java javaFx scene builder eclipse 

Rabat - Morocco

Jan. 2018 - May. 2018

CITY LIGHT | Smart traffic light

ENSIAS |  GITHUB

- Prototype of a connected traffic light.
- Project to solve the problem of urban traffic congestion. the system has a mobile application supported by all platforms (android, IOS, windows) , detects bottling within traffic lights managed by our system.

Ionic 3 OpenCV Python  Raspberry Pi

Rabat - Morocco

Dec. 2027 - Jul. 2018

AdHoc | Wireless Mobile Networks

FST

- Implement AdHoc Network topology.
- Benchmark between Adhoc routing protocols (AODV, DSDV, ZRP).

tcl otcl awk nam ns2

Errachidia - Morocco

Jan. 2017 - Jul. 2017

Awards

- | | | |
|------|--|---------------------|
| 2019 | Participant at NRC challenge , NATIONAL robotics competition - Mohammed VI Polytechnic University | Ben Guerir, Morocco |
| 2018 | First prize IoT challengel , Internet of Things Challenge - Innovation Week | Rabat, Morocco |
| 2018 | 4th Position IoT and sustainable development. , Hackathon Innovation | Rabat, Morocco |
| 2017 | Participant MCPC challenge , Moroccan Collegiate Programming Contest | Rabat, Morocco |

Interests

- > **Fitness gym**
- > **Playing volleyball**
- > **Problem Solving**