

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 end 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**