

# Hatim JAMALI

## Autonomous Systems | H-BRS

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📍 Hirschberger Straße 62 53119 Bonn, Germany  
📅 born on June 4, 1996 (23 ans)



I don't like excuses. I love asking questions to learn about new stuff everyday. I do care about my **relationship** with my friends. I always make sure I have a good enough technical level to fulfill my tasks, which is not always easy, but life isn't neither. I have some huge crazy **dreams**, and I'm trying to be **unique** in The word, I think about idea each and every day, and when I fall, I remember why I started, to tell myself that the biggest loss is not to **try**. I have a beautiful family, I love them too much, and I try to make them proud of me.

If you need an introvert, disciplined rule-follower, I am definitely **not** your guy, because I make noise and **success**.

## WORK EXPERIENCE

June 2019 August 2019	<b>Embedded Software Developer   Developer/Design Senior JAVA, NEWDEVMAROC, Fez, Morocco</b> <ul style="list-style-type: none"><li>➢ Design of embedded systems based on micro-controller NodeMCU and connecting with database using HTTP protocol.</li><li>➢ full software development experiences·good understanding of real-time system architecture / design.</li><li>➢ programming skills in embedded c·experience in embedded development tools (debugger, vector, ...) using RFID module and NodeMCU.</li><li>➢ Design and develop web application for managing employees scores.</li></ul> <div>UML Enterprise Architect Sublime Text 3 Wamp phpmyadmin Arduino PHP HTML CSS JavaScript embedded C</div>
June 2018 July 2018	<b>Software Architect   Developer/Design Senior JAVA, USMBA, Presidency, Fez, Morocco</b> <ul style="list-style-type: none"><li>➢ Design and develop software application for managing IP addresses in favor of University's establishments.</li><li>➢ Project management using Scrum methodology.</li></ul> <div>UML Enterprise Architect Eclipse SceneBuilder JAVA FX SQLite CSS</div>
February 2017 June 2017	<b>Software Architect   Developer/Design Senior JEE, FACULTY OF SCIENCES DHAR MAHRAZ , Fez, Morocco</b> <ul style="list-style-type: none"><li>➢ University library management system Science Faculty Dhar Mahraz</li><li>➢ Library management system with HTML, CSS, JAVASCRIPT, PHP (Certificate from Duke University)</li></ul> <div>Tomcat Mysql Java XML Bootstrap HTML Hibernate Spring Eclipse Maven</div>

## EDUCATION

October 2019 - Present	Master Autonomous Systems Hochschule Bonn-Rhein-Sieg(H-BRS) ,Germany. <ul style="list-style-type: none"><li>➢ Fellowships from the German Academic Exchange Service(DAAD)</li></ul>
2017-2019	2 years in "Engineering cycle" at National school For Computer Science and System Analysis ENSIAS (UM5 - Rabat).
2014-2017	Bachelor of Science degree in Mathematical and Computer Sciences at Faculty of Science Dhar El Mahraz (FSDM), Fez ,Morocco.
2014	Baccalaureate of Mathematical sciences(Sc. Math A)

## SKILLS & COMPETENCES

Data Science	python (Numpy, Pandas, Scikit-learn, Tensorflow, Keras).
Computer Vision	OpenCV, Scikit-image, skimage.
Embedded Technologies	ARM, FPGA (VHDL), Atmega328, Arduino, Raspberry Pi3
Programming Technologies	Java (JEE (Spring Framework), JSE), Microsoft .Net (C,C++), PHP, Javascript, CSS, ADA (Real Time), Android
Others	ORACLE, MYSQL, UML, Model Driven Engineering, EMF, OCL, Merise, Formal methods , MATLAB, Shell, Embedded system programming (Kernel), Antennas, Signal processing.
Certificates	Summer School : GENIE AEROSPATIAL FST-Fes, System Validation EIT Digital, Java Programming and Software Engineering Fundamentals Duke University.
Tools	Eclipse, Obeo Designer, Enterprise architect, git, Dreamweaver, Wamp, Spyder, Collab

## PROJETS

### A TRAFFIC LIGHT SYSTEM, DESIGNED TO LET CARS THROUGH ONLY WHEN ENOUGH CARS QUEUE

2017 - 2018

Our traffic light system was inspired by the lack of coordination between traffic light systems in real time.

ADA GNAT

### INVENT A SMART SYSTEM FOR DUST DETECTING IN SOLAR PANEL. (NOOR OUARZAZATE)

2017 - 2018

We have cameras that take the picture of each panel continuously. The picture becomes input to our classification algorithm that decides if the panel needs cleaning or not.

Python Keras Tensorflow Scikit-learn Collab Spyder

### TRAFFIC SIGN RECOGNITION ARTIFICIAL INTELLIGENT

2017-2018

 [github.com/https://github.com/jamali005/Traffic-Sign-Recognition](https://github.com/jamali005/Traffic-Sign-Recognition)

The goal of this project is design an image processing algorithm that can determine the type of the traffic sign. Using algorithm of machine learning.

Python LBP SVM Spyder Collab

### INVENTED CANSAT(SOUNDING ROCKET) TO ANALYSE TEMPERATURE,HUMIDITY,PRESSURE REAL TIME

2017 - 2018

 [Article for This Project](#)

The CANSATs are one of these mini-satellites, which are not literally aiming to replace real satellites, but only covering or simulating their main subsystems, with a free cost comparing with the real ones! The data incoming from the CANSAT, could be used then to take several decisions for example about climate or sea level.

Python Embedded C java(swing) Eclipse Sublime Text

### GENERATE COMPILER AND INTERPRETER PSEUDOCODE OF SPARKADA 2014 LANGUAGE

2017 - 2018

 [github.com/jamali005/Compilation](https://github.com/jamali005/Compilation)

The goal of this project to know how to implement a compiler with C language.

C Flex

## + VOLUNTARY WORK

September 2019 August 2020	Mentor of IEEE Student Branch ENSIAS., ENSIAS, Rabat, Morocco > IEEE Day event on the following theme "IOT and Machine Learning".
August 2019 August 2019	1st Prize StartUp WEEKEND., TECHNOPARK, Tanger, Morocco > Project is SMART GLOVE. > Team with 9 Members.
February 2019 June 2019	Top 5 Hackathon AL IRFANE., RABAT, Morocco > Project is NextGen AL IRFANE. > Team with 6 Members.
September 2018 August 2019	Chair of Program committee IEEE Student Branch ENSIAS., ENSIAS, Rabat, Morocco > IEEE Day event on the following theme "The computing of tomorrow". > IEEE Extreme 12th Edition.
September 2018 August 2019	Chair of ENSIAS Bridge., ENSIAS, Rabat, Morocco > Briefing with Graduated Student of our school. > Annual Meeting with leaders in Computer Science.

## LANGUAGES

Arabic	● ● ● ● ●
French	● ● ● ● ○
English	● ● ● ● ○
German	● ○ ○ ○ ○

## “ REFERENCES

Dr.Aissam BERRAHOU

Pr. Machine Learning, ENSIAS

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Dr.Faissal EL BOUANANI

Pr. Communication systems., ENSIAS

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Dr.Omar EL BEQQALI

Pr. Oracle Architecture., FSDM, USMBA

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