



#### Languages:

- **Arabic:** Native
- **French:** Native
- **English:** Fluent
- **German:** Beginner (A1)



#### Skills:

- **Soft skills:** Organizational behavior, Strong interpersonal skills, Challengeable, Innovative.
- **Programming:** C/C++, Shell, ORACLE, Python, JAVA, JEE, PHP.
- **DataBase:** Oracle, SQLite, PL/SQL
- **Data Science:** Tensorflow, Keras, Machine Learning, NLP, OpenCV.
- **Embedded Technologies:** ARM, VHDL, FreeRTOS, Raspberry, ADA
- **Formal Methods:** Process Algebra (LNT), Modeling a Synchronous/Asynchronous system, Model Checking, LTS, Binary Decision Diagrams, Boole's Expansion.
- **Others:** UML, MATLAB, EMF, AADL



#### Activities:

- Co-founder and Mentor of IEEE ENSAF Student Branch (Fez, Morocco 2019-2020)
- Mentor of IEEE Student Branch ENSIAS
- Mentor of ENSIAS Bridge. (2019-2020)
- Chair of Program committee of IEEE ENSIAS Student Branch (2018-2019)
- Chair of ENSIAS Bridge (2019-2020)
- Member in Robotics CLUB. (2018-2019)



#### Awards:

- StartUp Weekend Tangier 2019 - 1<sup>st</sup> Place.
- Smart-Compus Madinat Al Irfane – Top 5 Project.



#### Certificates:

- Genie Aerospace.
- BIG DATA.
- Python for data Science.
- IEEE Membership.
- System Validation.
- Programming Foundations.



#### References:

- Pr. Dr. Eng. Karim Baïna  
Big Data | IoT | CS | Trainer of Trainers  
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# HATIM JAMALI

Embedded and Mobile Systems Engineer



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## Education:



### Mobility Master of Science in Autonomous Systems: (DAAD Scholarship)

Hochschule Bonn-Rhein-Sieg – Sankt-Augustin, Germany

- Related Courses: Machine Learning, Deep Learning, Natural Language Processing, Advanced Machine Learning, Autonomous Mobile Robot(control, locomotion, perception, kinematics, Mapping, localization, path planning, cognition), Advanced Software Technology, Advanced Control, Engineering Safe and Security of Autonomous Systems (Architecture Analysis and Design Language (AADL), Risk Assessment, Robot Application Security Process (RASP), Fault tree analysis, Architecture Tradeoff Analysis Method (ATAM).
- <https://medium.com/ieee-ensias-student-branch/engineering-safe-and-secure-autonomous-systems-42cbc22030b6>



### MSc in Computer Science Engineering: Major Embedded and Mobile Systems

National School of Computer Science and System Analysis (ENSIAS) – Rabat, Morocco

- Related Courses: Compilation, ARM Cortex M3, Embedded systems Development, Signal Processing, Reel Time, Formal Methods (Process Algebra (LNT), Modeling a Synchronous/Asynchronous system, Model Checking, Formal Labeled Transition Systems (LTS), Binary Decision Diagrams, Boole's Expansion) Embedded System Engineering. Mobile Systems.



### Bachelor of Science in Mathematics and Computer Science: June 2017

Faculty of Science Dhar El Mahraz University Sidi Mohammed Ben Abdellah – Fez, Morocco

- Related Courses: Topology, Linear Algebra, Probability & Statistics, Logic, Assembly, C/C++, JAVA. Operating Systems, Network (Concept/Development), ORACLE, Web Technologies (PHP-HTML- JEE)

## Professional Experience:



### Embedded and Mobile System Engineer (Master Thesis)



- **Hosting Company:** 1NCE [Cologne, Germany], April 2020 [5 Months]
- **Tools/ Languages:** STM32CubeIDE, FreeRTOS Amazon, AT Command, Embedded C;
- **Experience:** [Extend the Amazon FreeRTOS software by a custom library to support mobile connectivity \(IoT\).](#)
  - ✓ Benchmarked market to choose Devices and run FreeRTOS and setup.
  - ✓ Built Socket Library to enable the sending of Data.
  - ✓ Onboarding Service as Library.
  - ✓ UDP enablement to send Data.
  - ✓ Performance/Measure comparison of MQTT vs UDP Data Transmission.
  - ✓ Supporting the auto-selection of Radio Access Type by RSSI.



### Technical Internship



- **Hosting Company:** NewDevMaroc [Fez, Morocco], July 2019 [2 Months]
- **Tools/ Languages:** ArduinoIDE, Embedded C, NodeMCU, RFID, PHP, JS;
- **Experience:** [Design of an Employee Tracking System using RFID](#)
  - ✓ Designed an embedded system based on NodeMCU with storing database using HTTP protocol.
  - ✓ Designed and developed a web application for managing employees scores.
  - ✓ Packaged for Customer.



### Research Intern



- **Hosting Company:** University Sidi Mohammed Ben Abdellah [Fez, Morocco], July 2018 [1 Month]
- **Tools/ Languages:** Eclipse, SQLite, PL/SQL, JAVA, JS, XML, Bootstrap, Hibernate;
- **Experience:** [Automate IP Address Management](#)
  - ✓ Participated to a team working on IT Department. The department aimed to fix all issue related to IT in all Institute of this University.
  - ✓ Designed and developed Software to Automate process for an Institute to get IP address from the Presidency.



### Computer Scientist (Bachelor Thesis)



- **Hosting Company:** Faculty of Science Dhar Mahraz [Fez, Morocco], February 2017 [6 Months]
- **Tools/ Languages:** Eclipse, Spring boot, PL/SQL, JAVA, JS, XML;
- **Experience:** [Online library platform - JEE](#)
  - ✓ Designed and Developed online library platform to book and use documents with one-click. Also come with an administrative dashboard to verify students, add/edit documents and manage the library.
  - ✓ Worked with scrum method with customer.

## Recent Personal Project

- Automatic Job Indexer (Scrapping, Regular Expressions, Word Embeddings, Dependency Tree, NER).
- Detection and classification of nuts with camera.
- DeepFake Detection : Challenge of Facebook, Amazon, Microsoft, MIT.
- Invent a Smart System for dust detecting in solar panel. (NOOR OUARZAZATE)
- Generate compiler and interpreter pseudocode of SparkADA 2014 language.
- Traffic Sign Recognition Artificial Intelligent (SVM, LBP) .
- Invented CANSAT (SOUNDING ROCKET) to analyze temperature, Humidity, Pressure in Real Time.