

## PERSONAL DETAILS

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*Address:* Petrikirchstraße 2, 37077, Göttingen, Germany  
*Phone:* + 49 (0)157 31075056  
*Mail:* [mohyiddineoujarrar@gmail.com](mailto:mohyiddineoujarrar@gmail.com)  
*Github:* [github.com/mooujarrar](https://github.com/mooujarrar)  
*Homepage:* [mooujarrar.pro](http://mooujarrar.pro)

## WORK EXPERIENCE

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**Software Engineer, Siemens Digital Industries Software**  
*Göttingen, Germany*

Jan 2020 - Now

- Participated in the development of the built-in web-based interface of a new rugged SCADA system dedicated for NVH testing in tough and rugged environments: [Simcenter SCADAS RS](#).
- Extending Testlab portfolio by developing new acoustic testing product application for the [Simcenter SCADAS XS system](#).
- Mastery of the scrum methodology and agile method practices such as peer programming, Kanban board, Test driven development, A/B testing.
- Participated in the maintenance through a proficient troubleshooting of a range of released products: PR and ER fixing, feature requests and patches handling.
- Developed an impacting feature of the software that was highly appreciated by the management, resulting in a price of excellent performer and an exceptional salary raise plus bonuses.
- Led many research projects aiming future strategic technologies and solutions.

**IoT Engineer, Passiv Energie Japan Inc. Internship**  
*Tokyo, Japan*

Apr 2019 - Sep 2019

- Developed, maintained and extended functionalities of the firmware driving an IoT device using C/C++ and Arduino IDE.
- Build a full stack application collecting, managing and monitoring data from IoT devices. Tools: JavaScript, React.js, React Native, Express.js, MQTT.js, MongoDB, Mongoose, Docker, Git.

**Software Engineer, Enedis SA. Internship**  
*Clermont-Ferrand, France*

Apr 2018 - Sep 2018

- Developed a full stack web application based on JEE, Spring Boot and Angular to register, track, visualize and create reports of the activities of the agents of the department.
- Automated requests processing and closing with Java, JavaFX, AutoIT and Selenium web driver based solutions.

## EDUCATION

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**Master's degree in engineering in Computer Science**

2016-2019

*Institut supérieur d'informatique, de modélisation et de leurs applications, Clermont-Ferrand, France*

- Specialization in Software and Embedded Systems

**Master's degree in Artificial Perception and Robotics as double curriculum**

2018-2019

*l'École Universitaire de Physique et d'Ingénierie, Clermont-Ferrand, France*

- Machine learning, estimation, optimization, learning process, control of mobile robots, command laws, artificial vision and digital imaging

## PROJECTS

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### Luping Lui *Game dev*

Free time

- Currently developing a mobile game using Unity engine, the game controllers are based on C# scripts.

### Smart moneybox *Academic project*

240 hours

- Created of a smart moneybox based on a RaspberryPi Zero, connected to the Wi-Fi network, equipped with a graphical interface that is built with JavaFX and rendered on an embedded touch screen.

### Augmented Reality Application For E-Medicine *Academic project*

120 hours

- Developed an augmented reality application facilitating the recognition of patients inside a hospital by enhancing the reality with identity displayed as perceptual information card. Tools: Unity, ARToolKit and Vuforia.
- Proof of concept for a positioning solution using augmented reality markers inside an environment with urban canyon effect.

### Other Projects:

- Raspberry pi based messaging tool using the Raspbian OS, the C language and TCP sockets.
- IoT project: retrieving GPS positions and send them in a mail to a list of subscribers. It was carried out with the MikroElektronika's EasyPIC5 development board, an arduino UNO, the GPS-41ML module and the SigFox's SFM10R1 IoT module.

## SKILLS HIGHLIGHTS

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- **Web:** Angular, Node.js, React, Express, Mongoose, Spring boot, Hibernate
- **OS:** Unix, Embedded Linux
- **Programming languages:** Javascript, Typescript, C, C++, C#, Java, Python
- **UI/UX:** JavaFX, Tkinter, Balsamiq Mockups, Zeplin
- **ML/DL:** TinyML, scikit-learn, Tensorflow, Keras
- **Database:** MySQL, MariaDB, MongoDB(NoSQL)
- **Other:** Git workflow, Agile software development, Latex

## LANGUAGES

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**French** (*Mother tongue*), **Arabic** (*Mother tongue*), **English** (*Professional proficiency*), **German** (*Intermediate, Level: B1*).

## INTERESTS AND PERSONALITY

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I love cycling, hiking or inline skating on weekends. I code at day and dance at night. I also like watching Japanese animes and Korean series. My friends and family form my other big interest. I see myself as a happy, outgoing and reliable person. I am a problem solver and no challenge is too big. The result of my work is often better than expected.