

PERSONAL DETAILS

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WORK EXPERIENCE

Software Engineer, Siemens Digital Industries Software
Göttingen, Germany

Jan 2020 - Present

- 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 exceptionnal 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 solution.
- Build a full stack application collecting, managing and monitoring data from IoT devices.
- Troubleshooting hick ups of previous firmware versions.
- Support in the Quality Check of the products before release to market.

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

Apr 2018 - Sep 2018

- Developed a full stack web application to register, track, visualize and create reports of the activities of the agents of the department.
- Automated requests processing and treatment.

EDUCATION

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

ESP-IDF-ATMS *OSS*

Free time

- Currently developing a fully offline and independent Attendance and Time Management System based on RFID technology and ESP32 SoC.

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.

SKILLS HIGHLIGHTS

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

LANGUAGES

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

INTERESTS AND PERSONALITY

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.