Mohyiddine Oujarrar

Advanced Software Engineer

PERSONAL DETAILS

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WORK EXPERIENCE

Advanced Software Engineer, Siemens Digital Industries Software   Jan 2020 - Present
Göttingen, Germany

- **Project Highlights:**
  - Participated in developing the web-based interface for Simcenter SCADAS RS, a rugged SCADA system dedicated to NVH testing in challenging environments.
  - Expanded the Testlab software portfolio by creating a new acoustic testing product application for Simcenter SCADAS XS.
  - Led the development of the Testlab Event marking app.
- **Research and Maintenance:**
  - Spearheaded multiple research projects focused on future strategic technologies and solutions.
  - Proficiently handled maintenance tasks, including troubleshooting, PR and ER fixing, feature requests, and patches for released products.
- **Agile Methodology Mastery:**
  - Demonstrated expertise in Scrum methodology and agile practices such as pair programming, Kanban board utilization, Test-Driven Development, and A/B testing.
- **Key Achievements:**
  - Elevated from Software Engineer to Advanced Software Engineer for exceptional commitment and consistently delivering outstanding results.
  - Developed a feature highly appreciated by management and customers, resulting in recognition as an excellent performer and an exceptional salary raise plus bonuses. [Demo of the feature]

IoT Engineer, Passiv Energie Japan Inc. *Internship*   Apr 2019 - Sep 2019
Tokyo, Japan

- Develeoped, maintained and extended functionalities of the firmware driving an IoT solution based on the ESP32 SoC (Tensilica's Xtensa architecture).

- 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*   Apr 2018 - Sep 2018
Clermont-Ferrand, France

- 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

Moniplant *OSS*   Free time

- Merging WebGL, Threejs and 3D rendering for web technologies and embedded systems to create a plants monitoring system

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.

SKILLS HIGHLIGHTS

- **Programming languages: Javascript, Typescript, C, C++, C#, Java, Python**

- **Hardware: ESP32(Xtensa LX6), ESP8266(Xtensa lx106), nRF52840(ARM Cortex-M4)**

- **Communication protocols: UART, I2C, SPI**

- **Frontend: Angular, React, Three.js, WebRTC, Cypress(E2E Testing), Jasmine(TDD)**

- **Backend: Node.js, Express, NestJS, Mongoose, Spring boot, Hibernate**

- **DBMS: SQL(MySQL, MariaDB), NoSQL(MongoDB)**

- **UI/UX: JavaFX, Tkinter, Balsamiq Mockups, Zeplin, Adobe XD**

- **ML/DL: TinyML, scikit-learn, Tensorflow, Keras**

- **CI/CD: Git workflow, Teamcity, Docker, Docker Compose, Jenkins**

LANGUAGES

French *(Mother tongue)*, **Arabic** *(Mother tongue)*, **English** *Professional proficiency)*, **German** *(Intermediate, Level: B2)*.