MHD MOUAZ OLABI

Personal Data

August 27, 1996 in Damascus
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Education

Bachelor's Degree Computer Engineering - Smart Systems (10.2017-04.2023)
University of Duisburg-Essen

Agile software Engineering "Lego Scrum"
Andrena OBJECTS (01.2018-07.2018)

High School Diploma (07.2013-07.2014)
RMS in Damascus, Syria

Practical Experience

Autonomous Robot for (Medication) Delivery in Hospital Environment Esp. In Covid-19 Pandemic
University of Duisburg-Essen (06.2021-09.2021)

- Advanced implementation of AI and ML for face recognition and Human-Aware-Navigation.
- Use of the ROS operating system and the OpenCV library.
- Programming with C, C++, and Python.

Technical Skills

- Embedded Linux
- OOP C++, Java
- Go (Golang)
- Qt/QML
- Yocto Linux
- Software Architecture
- Embedded Systems
- Cloud Integration
- IoT Connectivity
- System Integration
- Performance Optimization
- Technical Leadership
- Agile Development
- System Integration
- Technical Specification
- ROS
- SystemC
- AMBA Bus Protocols(APB,AXI)
- LaTex
- Python
- Computer Vision
- OpenCV
- Machine Learning
- Git & SVN VCS
- MATLAB
- Edge-to-Cloud Integration
- C Programming
- Cadence SimVision
- TLM 2.0
- Jira (Atlassian)

skills

- Analytical Thinking
- Problem-Solving
- Technical Leadership
- Teamwork
- Communication Skills
- Time Management
- Responsibility & Ownership

Languages

- **German**
  Professional working proficiency
  (Certificate DSH3)
- **English**
  Professional working proficiency
  (EF SET-Certificate C1)
- **Arabic**
  Native proficiency

Hobbies

- **Reading**
  Self-Help Literature
  Non-fiction literature
- **Playing chess**

Professional Career

Software & Application Engineer - Embedded Linux/Cloud (10.2023-Today)
STIEBEL ELTRON Group, Smart Home Section

- Develop and maintain embedded software modules using C++, Qt, Go, and Yocto Linux for Linux-based embedded systems.
- Design scalable, modular, and high-performance software architectures for embedded applications.
- Integrate embedded systems with cloud-based solutions for remote management, connectivity, and data collection.
- Define technical specifications, software standards, and system architectures to support long-term product scalability.
- Contribute to the development of innovative and energy-efficient products with a focus on sustainability and future-ready technologies.
- Collaborate with cross-functional teams and coordinate third-party developers to ensure alignment with project objectives and code quality standards.

Renesas Electronics GmbH (03.2020-09.2023)
Global ADAS Solution Group

Application Engineering (09.2022-09.2023)

- Development of R-Car SoC and CI/CD cloud environment.
- Definition of an SDA platform solution.
- Firmware programming with Python.

Software Engineering (02.2022-08.2022)

- Development of a graphical user interface.
- Dynamic specification of system models and scenarios in a machine-readable format.
- Software development with Java.

Bachelor's Thesis (Grade: 100%) (09.2021-01.2022)

- Development of a dynamic SystemC simulation environment builder of the System-on-a-Chip "SoC".
- Automate network utilization analysis.
- Programming with SystemC, C++, and Java.

Working Student (07.2020-08.2021)

- Participated in all phases of system development life cycle,
- Programming with SystemC and C++.

Internship (03.2020-06.2020)

- Adoption of object-oriented development methods.
- Programming with SystemC and C++.

Academic Tutor and Laboratory Supervisor
University of Duisburg-Essen (10.2018-02.2020)

- Logical Design Of Digital System Tutorial & Laboratory.
- Procedure programming in C programming language.
- Fundamentals of Computer Engineering Tutorial & Laboratory