

CV

Personal Information

Name	Assma Alwais
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Birth Date	18.07.2002
Nationality	Jordanian
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YouTube	youtube.com/@sternsemo
Portfolio	https://asmaalwais.github.io/asmaalwais/



Education

September 2020 - January 2026	Bachelor study in Mechatronics and AI German Jordanian University, Madaba, Jordan Strengths: Sensors, Automation, Robotics, AI and IOT GPA: 81.7% (very good)
October 2024 - October 2025	Exchange Semester: Bachelor study in Automation and Electronics Nordhausen University Strengths: Internet Software Technology, Quality Management, 3D-Printing Sensors and Automation
Juli 2020	Jordanian High School Diploma Al-Hassad Schools, Amman, Jordan

Work Experience

August 2025 - February 2026	Bachelor Student; Machine Vision for real time error detection Murrelektronik, Kirchheim unter Teck, Germany <ul style="list-style-type: none">• Development of a machine vision system for the automatic real-time error detection of objects and products.• Use of image processing and AI models for precise and fast assignment of different product classes.
April 2025 - July 2025	Internship in the area of research; Automation of a Testing station fischer GmbH, Waldachtal, Germany <ul style="list-style-type: none">• Planning and setup of a robotic test cell for automated acquisition of quality data during the testing of wood construction screws.• Integration of sensors, actuators, and image processing for real-time inspection.
September 2023 - October 2023	Internship in the area of Maintenance of Automotive Systems Mercedes-Benz, Tawfiq Gharghour, Amman, Jordan <ul style="list-style-type: none">• Performing maintenance work on transmission systems and AC units• General inspections and vehicle servicing.

February 2023 - April
2023

Customer service representative
Crystel, Amman, Jordan

- Professional telephone support in German-language customer service.
- Processing customer orders, and handling complaint management.

Personal Skills

Languages

Arabic	Mother Tongue
English:	Fluent (C1)
German:	Very Good (B2)

Computer Knowledge

LabVIEW:	Very good
MS-Office:	Very good
SIMATIC STEP 7:	Very good
AutoCAD:	Very good
Python:	Very good
Matlab:	Very good
C und C++:	Very good
Power BI:	Very good
HorstFX:	Very good
SiemensNX:	Very good
CoDeSys	Basic knowledge

Hobbies

Filming and Video editing

Projects

More about Projects: <https://asmaalwais.github.io/asmaalwais/>

Smart Factory:

Programming of a smart factory using PLC and HMI for managing assembly stations and optimizing production processes.

PID Control System:

Implementation of a PID controller optimized for stability and precision. The controller was tested and fine-tuned in simulated scenarios.

Automated Smart Home:

Development of a system featuring fire detection, security, automatic lighting, PIN-based door access, and HVAC control, enabling an energy-efficient and secure living environment.

Vibration Sensor Data Analysis:

Analysis of vibration data to identify patterns and anomalies in order to better understand system behavior and detect potential issues at an early stage.

Machine Vision for Real-Time Object Classification:

Development of a camera-based system for edge detection and real-time product classification. Use of image processing and AI models for stable detection and fast assignment of different object classes.

Ottawa, 23.11.2025



Assma Alwais