

# MOHAMAD JARAD

AI-Augmented Software Engineer | Industrial AI Systems | EU R&D Projects



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## TECHNICAL SKILLS

### Programming

Python - JavaScript – Dart - C++

C# - NodeJS

### AI & Data

ML/DL - LLM integration RAG

systems - AI copilots

### IoT & Embedded:

Node-RED, ESP32, Arduino,

Raspberry Pi, MQTT, Modbus

TCP,

### Databases

PostgreSQL - TimescaleDB

MongoDB – Redis – SQLite -

ChromaDB

### DevOps & Tools

Docker, GitHub, GitLab, Forgejo

Grafana,

### Frameworks

FastAPI – React - Flutter

## EDUCATION

### BACHELOR'S DEGREE

Software Engineering

Toros University – Türkiye

Graduated: 2025

GPA: 3.41 / 4.0

## SUMMARY

Software Engineer specializing in AI-augmented software development and industrial data systems. Experienced in delivering real-world software platforms within EU-funded research and innovation projects focused on energy management and sustainable manufacturing.

My work focuses on transforming complex research concepts and technical proposals into production-ready systems by combining AI-assisted development workflows,

## PROFESSIONAL EXPERIENCE

### SOFTWARE ENGINEER

SEP 2024– PRESENT

*A Artı Mühendislik (APlus Engineering Inc.) | Mersin, TR*

Working on multiple **EU-funded research and innovation projects** in the field of energy management, sustainable manufacturing, and intelligent industrial systems.

Responsibilities include system architecture, full-stack development, AI system integration, and leading development tasks for digital assistant platforms in industrial environments.

### AVAROS – AI Digital Assistant for Sustainable Manufacturing

EU WASABI Consortium | Lead Developer

Led the development of an AI-powered digital assistant designed to help manufacturing teams optimize energy consumption and resource usage.

The system integrates conversational interfaces, predictive analytics, and document intelligence to support decision-making in industrial operations.

### HumanEnerDIA – Intelligent Energy Management Platform

EU WASABI Consortium | Sole Developer

Development of a Human-Centric Intelligent Energy Management System integrating AI analytics and digital assistants for industrial environments.

Key capabilities include real-time energy monitoring, anomaly detection, predictive analytics, and AI-powered operational assistance.

Live demo: <https://wasabi.intel50001.com/>

### LAUDS – Human-Centric Energy Management Demonstrator

EU LAUDS Exploration Open Call – FabCity Hamburg | Sole Developer

Developed a modular Energy Management System demonstrator deployed across multiple FabLabs and microfactories in Hamburg, Germany.

The project aimed to make industrial energy consumption understandable and accessible to non-technical users by combining IoT systems with human-centered interfaces.

Live demo: <https://lauds-demo.intel50001.com/>

### SOFTWARE ENGINEER INTERN

JUL 2024– SEP 2024

*Creamobile Bilişim Teknolojileri Ltd. Şti. | Mersin, TR*

Developed AI-powered tools including document search (RAG), OCR based business card extraction, and face recognition with anti spoofing. Configured secure Mosquitto MQTT broker with dynamic user registration. Integrated Redis, FAISS, and Ollama models to boost search performance and multilingual capabilities.