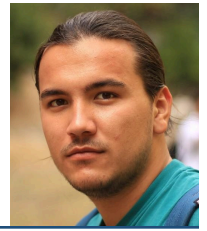


Hasan Sariköse



Embedded Systems & Automotive Software Engineer

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SUMMARY

Computer Engineering senior specializing in embedded systems and automotive software. Hands-on experience with vehicle diagnostics (UDS, CAN bus), ECU programming, and microcontroller firmware (STM32, ESP32) gained through a five-month engineering internship at TEMSA and multiple competition-grade hardware projects. Comfortable across the full stack of embedded development — from low-level C/C++ firmware and communication protocols to PC-side diagnostic tooling in C#/ .NET. Looking to contribute to automotive and embedded engineering teams in the energy and technology sectors.

EXPERIENCE

TEMSA — Software Development Engineer Intern Sep 2025 – Jan 2026

Adana, Turkey · Automotive / Embedded

- Analyzed CAN bus communication and UDS diagnostic protocols, focusing on diagnostic data flow and in-vehicle system reliability through structured log analysis.
- Collected real-time data directly from vehicles and performed detailed log analyses to support fault detection and system reliability evaluation.
- Applied PLC-based logic design and automation concepts to study the interaction between control systems, automotive electronics, and diagnostic processes.

Stack: CAN Bus, UDS, Vehicle Log Analysis, PLC Programming, C++

Seytim — Software Engineer Intern July 2024 – Aug 2024

Adana, Turkey · Software

- Built a full-scale web application (Laravel) with secure authentication and optimized relational database structures — demonstrating ability to deliver companion tooling and management panels for embedded/field systems.

Stack: Laravel, PHP, MySQL, JavaScript

EMBEDDED & AUTOMOTIVE PROJECTS

Vehicle ECU Programming Application (UDS Flashing Tool) Sep 2025 – Dec 2025

- Developed a Windows desktop application enabling vehicle software flashing over an OBD interface using UDS protocols, with modules for secure communication, error handling, and reliable ECU programming workflows.

Stack: C#, .NET Framework, Windows Forms, UDS Protocol, OBD Communication

BLE Telemetry Broadcaster — STM32 to ESP32-C6 (Borda Academy 2026) 2026

- Designed firmware on an ESP32-C6 that receives 101-byte UART packets from an STM32F4 and re-broadcasts them as BLE Legacy Advertisements, chunked into 4x24-byte segments; implemented I2C sensor reading, moving-median filtering, and circular-buffer handling.

Stack: ESP32-C6, STM32F4, C/C++, UART, I2C, BLE, NimBLE, FreeRTOS

Firefighting Autonomous Ground Vehicle (UGV) TEKNOFEST

- Contributed to vehicle control software and embedded integration for an autonomous firefighting ground vehicle, bridging sensor input, motor control, and decision logic on resource-constrained hardware.

Stack: ROS / ROS 2, C++, Python, Embedded Control, Computer Vision

EDUCATION

Çukurova University — B.Sc. in Computer Engineering Oct 2021 – Jun 2026

Adana, Turkey

TECHNICAL SKILLS

Embedded / Automotive: UDS, CAN Bus, OBD, ECU Programming, STM32, ESP32, PLC, I2C, UART, BLE, RTOS

Languages: C, C++, C# (.NET), Python, JavaScript

Robotics / Control: ROS, ROS 2, Computer Vision, OpenCV, YOLOv8

Tools & Other: Git/GitHub, Vehicle Log Analysis Tools, Linux, Windows Forms, Laravel

Languages: Turkish (Native), English (Professional Working Proficiency — Technical Reading & Writing)

ACHIEVEMENTS & LEADERSHIP

- General Team Captain, 1.5 Adana Cyberova Autonomous Technologies Team (2023–2025); four years on autonomous systems, vehicle control, and communication software (Software Member → Captain).
- TEKNOFEST participant 2023–2025 across Unmanned Ground Vehicle, Agricultural UGV, and Digital Technologies in Industry competitions.
- TÜBİTAK 2209-A research grant — "Occupational Safety Monitoring via Image Processing" (2024).
- Computer Vision Certificate — Ministry of Industry and Technology (2023).