ALİ KAĞAN MART

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SUMMARY

Embedded Software Engineer and Electrical-Electronics Engineering Student with experience in embedded systems and GUI development. Skilled in C, C++, Python, Rust, and tools like QTCreator and Git. Proficient in software development, communication protocols and computer vision. Passionate about contributing to innovative projects in dynamic environments.

CORE SKILLS

- C
- Python
- QTCreator
- C++
- Rust
- Proteus
- Microcontrollers
- Git (Version Control)
- Agile Methodology
- Microcontrollers
- Embedded Systems
- Real-Time Systems
- Computer Vision
- IDEs
- IoT
- Communication Protocols

PROFESSIONAL EXPERIENCE

ASISGUARD Ankara, Turkey   **July 2023 - Sep 2023**
Software Design Engineer, Intern

- Collaborated with a cross-functional team in the R&D department to design and develop new software solutions for the Songar Armed Drone System. Worked on system architecture and improved modularity for easier updates and maintenance.
- Led the implementation of a Hardware Abstraction Layer (HAL) interface, reducing software design time by 17% through streamlining communication between hardware and software components
- Monitored system performance with Prometheus and tracked KPIs such as response time and CPU usage; presented reports to the R&D team to drive future optimizations. Suggested and implemented software upgrades that improved response time by 10%.

Cukurova Electromobile Team Adana, Turkey   **Sep 2019 - Dec 2022**
Software Engineer , Intern

- Developed embedded systems for electric vehicles, concentrating sensor integration to collect real-time data for optimizing vehicle performance.
- Designed and programmed the user interface for on-board control system, using C++ and QTCreator, allowing real-time monitoring and adjustment of vehicle systems. Improved UI responsiveness and reduced load time by 15%.
- Designed and implemented in-vehicle CANbus network to manage communication and debugged issues using CANalayzer.

EDUCATION

BSc in Electrical and Electronics Engineering   **Sep 2019 - est. July 2025**
Cukurova University, Adana, Turkey

- Specialization in Embedded Systems
- Thesis on "Embedded System with Computer Vision".
  - Developed a computer vision-based embedded system capable of object detection and tracking in real-time environments using Python and OpenCV.
  - Integrated machine learning algorithms to enhance detection accuracy by 22%.

BSc in Electrical and Electronics Engineering   **Sep 2021 - Feb 2022**
Bialystok University of Technology

- Erasmus+ Mobility Programme
- Relevant coursework in Embedded Systems Software Development.

LANGUAGES

- **Turkish (Native Proficiency)**
- **English (Full Professional Proficiency)**
- **German (Limited Working Proficiency)**