Eray Ulutaş

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GitHub / Stack Overflow / LinkedIn

An analytical and rational person. Have a deep desire to understand things to their roots. Admires to be a systems thinker and solve important problems.

Enjoys poetry, discussions about deep philosophical topics, reading biographies, quality chocolate, and tea.

Skills

Research Techniques, Technical Writing, Critical Thinking, UML, C4 Model, Test Driven Development, CI/CD, C, C++, Python, Lisp, PLC Programming, Computer Networks, Communication Protocols, Embedded Linux

Also familiar with: Machine Learning, Wolfram Language, MATLAB & Simulink, Computer-Aided Design (CAD), PCB Design

Engineering Experience

Bosphorus Industrial Software Solutions, Apr 2022 - Present, Embedded Software Engineer: Worked on the Linux-based Digital Communication Card software of a Waste Water Management System owned by a world-renowned pump manufacturer. Performed requirements analysis, design, implementation, testing, and maintenance. Managed CI/CD pipelines. Created and maintained system diagrams and technical documentation. Standardized development processes and created development tools. Gave and organized team and company wide trainings. *C/C++, CMake, Python, GTest, ZeroMQ, gRPC, Protocol Buffers, HTTP, Sparkplug/MQTT, TCP/IP, CANopen, MODBUS/TCP, OPC UA, Yocto, RAUC, OTA, U-Boot, Barebox, Bash, PLC Programming, MySQL, InfluxDB, Valgrind, gdb, Clang-Tidy, Wireshark, Microservice Architecture, systemd, Keepalived, ALSA, Sensor Fusion, Distributed Systems, SCADA Systems*

Education

Control and Automation Engineering MSc, 2024 - Present
Istanbul Technical University, Türkiye

Mechanical Engineering BSc, *cum laude, 2016 - 2021*
Istanbul University, Türkiye

Certificates and Completed Courses

Course, Technical Writing, 2024, Google
Certificate, Linux debugging, profiling, tracing, and performance analysis, 2023, Bootlin
Course, Embracing a Culture of Feedback, 2022, Udemy