MEHMET SONER KORUCU

Embedded System Engineer

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I'm an embedded systems engineer working on security firmware at Analog Devices, developing and debugging secure enclave firmware and its CI/CD and containerized test infrastructure. I hold a B.S. in Electronics and Communication Engineering and am pursuing an M.S. in Computer Engineering at Bogazici University. With a background in embedded Linux, bare-metal and real-time systems, I'm especially interested in cryptography, embedded systems and secure firmware. I'm proficient in C and C++.

PROFESSIONAL EXPERIENCE

SW System Design Engineer – Analog Devices, Inc.
12/2025 – Present | Istanbul, Turkiye

- Develop and debug trusted firmware and drivers for Arm and RISC-V
- Build CI/CD pipelines and containerized test environments; Work on Secure Boot and Root of Trust

Embedded System Engineer – Repkon Machinery | Defence Industry
08/2024 – 12/2025 | Istanbul, Turkiye

- Develop motion control software and implement motion algorithms on real-time embedded systems
- Develop Linux kernel and user-space drivers; build custom Linux distributions for arm32/arm64/x86

Embedded System Designer– Regnum Technology | Start-up
07/2023-07/2024 | Istanbul, Turkiye

- Design software and build drivers for ESP32-based IoT systems
- Work with Wi-Fi, Bluetooth, and GSM modules and write their drivers

Sofware Developer Intern – Aselsan | Defence Industry
06/2023 – 07/2023 | Ankara, Turkiye

- Use Wind River's VxWorks to compare real-time systems against regular operating systems
- Test and compare different math libraries to compare which ones worked faster and more accurately

EDUCATION

Istanbul Technical University (ITU) Istanbul, Turkey — **09/2020 – 06/2024**
BS. Electronics and communication engineering

Ecole 42 Istanbul Istanbul , Turkey — **09/2022 – 06/2024**
Software Developer

Bogazici University Istanbul , Turkey — **02/2025 – Present**
MS. Computer Engineering

SKILLS & TOOLS

- C/C++ | System Programming
- Linux | Embedded Linux
- ARM Cortex-M | RISC-V
- Secure Boot | TrustZone
- Docker | GitHub Actions
- Git | CMake | Make
- FreeRTOS | Bare-metal
- Secure Enclave | Root of Trust

LANGUAGE

Turkish: Mother Language
English: C1

ADDITIONAL INFORMATION

COURSES AND AWARDS
08/2023 - Trondheim | Norway.
NJORD Autonomous Ship Challenge - 1st place overall – Norwegian University of Science and Technology

200+ hours C Language Course (2025) and 200+ hours C++ Language Course (2026) - Plepa Training and Consulting