

OLEKSANDR GERGEL

EMBEDDED SOFTWARE ENGINEER

CONTACT

- +380 963003939
- olekggua@gmail.com
- 13 Dzvinkova St. Petrushky Kyiv

SKILLS

- C, C++, Makefile, Shell script
- RTOS (FreeRTOS, eCOS)
- Embedded Linux
- Build System
- IoT 4G
- BLE

LANGUAGES

- English (Fluent)
- Ukrainian (Fluent)
- Russian (Fluent)
- French (Basic)
- German (Basic)



PROFILE

Experienced embedded system engineer with a passion for bringing products to life. With more than 7 years of experience in the industry, has a proven track record in firmware development, hardware integration, and product launches. Driven by a desire to solve problems and create value for customers.



WORK EXPERIENCE

GlobalLogic

2024- 2026

Embedded System Engineer For Qualcomm

- Developed and maintained embedded C firmware for 4G LTE(Cat-M/NB-IoT) modem platform(QC chipsets) running on eCos RTOS, targeting resource constrained IoT devices.
- Designed and integrated low power management(PSM/eDRX) mechanisms including wakelock acquisition.
- Designed and implemented multi-threaded service architectures using POSIX pthreads, with explicit stack size configuration, scheduling priority tuning, and thread lifecycle management.
- Designed and registered custom AT command handlers for network configuration, SIM management, band selection etc..
- Developed OTP firmware updater for manufacturing mode.

GlobalLogic

2022 - 2024

Embedded Software Engineer For Semvox

- Developed and maintained cross-platform SDKs for integrating Text-to-Speech (TTS) and Automatic Speech Recognition (ASR) engines into customer applications.
- Researched and implemented TTS / ASR engine integration techniques to support different speech engine backends through a unified SDK interface.
- Integrated 3 new TTS engines into the SDK and released multiple customer-facing SDK versions.
- Designed and implemented SDK features, engine abstraction layers, and platform-specific enhancements for Windows, Linux, and Android.
- Improved SDK usability by developing sample applications, integration examples, and technical documentation for customers.
- Worked on build system improvements and cross-platform compatibility using Makefiles and platform-specific toolchains.
- Supported multiple language bindings, enabling customers to use the SDK from their preferred programming languages.
- Collaborated with engineering, QA, and support teams on SDK architecture, algorithm implementation, testing, and release preparation.

OLEKSANDR GERGEL

EMBEDDED SOFTWARE ENGINEER

CONTACT

+380 963003939

olekkgua@gmail.com

13 Dzvinokva St. Petrushky
Kyiv

SKILLS

- C, C++, Makefile, Shell script
- RTOS (FreeRTOS, eCOS)
- Embedded Linux
- Build System
- IoT 4G
- BLE

LANGUAGES

- English (Fluent)
- Ukrainian (Fluent)
- Russian (Fluend)
- French (Basic)
- German (Basic)



WORK EXPERIENCE

Jabil

2020 - 2022

Embedded Software Engineer (Project from Meta)

- Developed embedded firmware for a wearable smartwatch companion sensor board called Purk, responsible for collecting environmental, motion, and biometric sensor data.
- Designed and implemented an RTOS based firmware architecture to support real time actuisition and processiong.
- Integrated multiple onboard sensors and created modular sensor drivers using interrupt driven design, RTOS queues, semaphores and task synchronization.
- Implmented BLE communication between Purk and the main smartwatch unit using UART BLE/Nordic UART service.
- Worked on remote hardware setup and development workflow,.
- Worked with SI engineers, mobile app developers to align firmware behavior, sensor features, and user experience.
- Participated in architecture reviews, protocol design discussions, hardware validation, and performance testing.

Epam

2018 - 2020

Embedded Software Engineer

- Developing KTV system on STB device
- Integrate audio processing module to eCOS RTOS.
- Integrate VectorFont to eCOS RTOS.
- Developed FAT32 FS encryption utility
- Extract debug information from ELF file
- AOSP build system
- Linux user application development with C



EDUCATION

National aviation university.
Bachelor of Project Management
GPA: 3.8 / 4.0

2005 - 2009