

# Petro L.

## Senior C++ Engineer / Team Lead

### SUMMARY

- 7 years of experience in C/C++ software development with a focus on embedded and firmware systems;
- Expertise in Linux-based environments, networking, and system-level programming, including DHCP, DNS, ARP, and VoIP;
- Skilled with OpenWRT, Buildroot, U-Boot, and debugging tools such as GDB, Valgrind, Wireshark, and tcpdump;
- Experience in WiFi 6 and LTE/5G SA/NSA gateway development, performance optimization, and legacy code refactoring;
- Knowledge of CI/CD (Jenkins), scripting (Bash), and virtualization (QEMU);
- Skilled in team management, code review, and process improvement, ensuring product quality and delivery efficiency across all project phases.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	C++, Linux
<b>Programming Languages</b>	C++
<b>JavaScript Frameworks</b>	Lodash
<b>Java Libraries and Tools</b>	okHttp
<b>Python Libraries and Tools</b>	Robot Framework
<b>Security</b>	Wireshark
<b>Amazon Web Services</b>	AWS API Gateway
<b>Industry Domain Experience</b>	Embedded
<b>Mail / Network Protocols / Data transfer</b>	ARP, DHCP, DNS, Networking, STP, tcpdump, VoIP
<b>Collaboration, Task &amp; Issue Tracking</b>	Atlassian Confluence, Jira
<b>SDK / API and Integrations</b>	AWS API Gateway

<b>Scripting and Command Line Interfaces</b>	Bash, Make
<b>Operating Systems</b>	Buildroot, FreeBSD, Linux, Unix
<b>Deployment, CI/CD &amp; Administration</b>	CI/CD, Jenkins
<b>Third Party Tools / IDEs / SDK / Services</b>	CMake, GDB, valgrind
<b>Version Control</b>	Git
<b>Web/App Servers, Middleware</b>	LAMP
<b>BlockChain and Decentralized Software</b>	NEAR
<b>QA, Test Automation, Security</b>	QA Automation, Wireshark
<b>Virtualization, Containers and Orchestration</b>	Qemu
<b>Soft Skills</b>	Team Management
<b>Other Technical Skills</b>	5G NSA, 5G SA, JQL, LTE, OpenWrt, query DSL, RSTP, Software Development, U-Boot

## WORK EXPERIENCE

### Team Lead, GlobalLogic (Home wireless gateways that support cellular networks)

**Duration:** Feb 2023 - Present

**Summary:** Leads a team of 8 developers and 1 QA engineer in developing home wireless gateways that support cellular networks. Focuses on maintaining code quality, improving processes, and guiding the team through all project phases- from pre-release to active deployment.

#### Responsibilities:

- Set goals and objectives for the team, ensuring alignment with project requirements.
- Facilitate communication, collaboration, and professional development within the team.
- Conduct code reviews, monitor performance, and ensure high coding standards.
- Provide project progress updates to the customer and address technical concerns.



### **Achievements:**

- Successfully transitioned the project from pre-release to active deployment.
- Improved code quality through new processes and team structure.
- Deployed several product versions to the field and built a cohesive, high-performing team.

**Technologies:** C/C++, Linux, OpenWRT, Buildroot, U-Boot, Wireshark, tcpdump, GDB, Vim, Valgrind, QEMU, Bash, Jira, JQL, Confluence, Jenkins, LTE, 5G SA/NSA.

### **Senior Software Engineer, GlobalLogic (WiFi 6-based gateway)**

**Duration:** Jun 2022 - Feb 2023

**Summary:** Developed a WiFi 6-based gateway, integrating next-generation wireless features into an existing platform to enhance network performance and stability.

### **Responsibilities:**

- Resolved user-reported issues and optimized system performance.
- Refactored and improved legacy code for maintainability and performance.
- Designed a recovery system for restoring devices after bootloader failures.

### **Achievements:**

- Improved product stability and user experience by resolving critical issues.
- Delivered a recovery mechanism that minimized downtime and maintenance effort.

**Technologies:** C/C++, Linux, OpenWRT, Buildroot, U-Boot, Wireshark, tcpdump, GDB, Vim, Valgrind, QEMU, Bash, DHCP, DNS, ARP, STP, RSTP, HTTP/HTTPS.

### **Middle Software Engineer, GlobalLogic (Home gateway)**

**Duration:** Nov 2021 - Jun 2022

**Summary:** Developed a home gateway with DSL WAN support, ensuring high-speed connectivity and system stability for residential users.

### **Achievements:**

- Implemented visualization features using the SDL library to enhance usability.

**Technologies:** C/C++, Linux, OpenWRT, Buildroot, U-Boot, GDB, Vim, Valgrind, Bash, DSL, VoIP.

### **Junior Software Engineer, GlobalLogic (Streaming application)**

**Duration:** Nov 2019 - Nov 2021

**Summary:** Contributed to the development of a PlayStation 4 application offering streaming of TV shows, movies, and live content.

### **Achievements:**

- Identified and resolved deadlocks and race conditions in multithreaded environments, improving stability and performance.



**Technologies:** C/C++, Orbis OS.

**Student Developer, SoftServe IT Academy (IDE prototype)**

**Duration:** Jul 2019 - Nov 2019

**Summary:** Developed an IDE prototype for pair programming using the QT framework in collaboration with a student team.

**Technologies:** C++, QT Framework.

## EDUCATION

- **Bachelor's Degree in Management of Organizations and Administration**, National Forestry University of Ukraine (Sept 2023 - Present)
- **Master's Degree in Computer Science and IT, Lviv Polytechnic National University** (Sept 2020 - Dec 2021)
- **Bachelor's Degree in Computer Science and IT**, Lviv Polytechnic National University (Sept 2016 - Jun 2020)

