

# Embedded Software Developer

## PROFESSIONAL EXPERIENCE

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- **2023 - PRESENT**    **EMBEDDED SOFTWARE DEVELOPER**  
**Volvo Cars**
    - Developed and maintained embedded software for DHUs (Display Head Units) in vehicles, utilizing C++14, FreeRTOS and Python on Renesans RH850 and Traveo T2G microcontrollers
    - Wrote HIL tests with Pytest and unit tests using GoogleTest in C++
    - Maintained software download over UART and DoIP
    - Maintained platform power moding
    - Developed Secure Boot with dual bank memory for Traveo T2G microcontoller
  - **2022 - 2023**    **FIRMWARE DEVELOPER**  
**Fujitsu Global**
    - Designed and developed UEFI firmware in C for x86-based servers
    - Troubleshoot and debugged firmware issues
    - Wrote and maintained technical documentation
  - **2020-2022**    **C/C++ EMBEDDED DEVELOPER**  
**PLUM**
    - Developed and maintained embedded systems in C and C++ for IoT applications using STM32L4 and MSP430 microcontrollers
    - Collaborated with hardware engineers to design and test circuits
    - Implemented cellular communication protocols such as NB-IoT and Cat-M1 for Quectel BG95-M3
    - Implemented menu for LCD display and data storage library for external SPI memory in C++
    - Implemented gas-modem protocol on BLE device in C

## EDUCATION

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- **2019-2023**    **BIALYSTOK UNIVERSITY OF TECHNOLOGY**  
Bachelor of Computer Science

## SKILLS

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- Proficient in C, C++14 programming and debugging, CMake, GoogleTest
  - Python, Pytest, HIL Testing
  - CI/CD, Docker, Jenkins, Gerrit, Linux
  - Experience with real-time operating systems (FreeRTOS)
  - Experience with version control systems (Git, SVN)
  - Experience with IoT technologies and protocols
  - Proficient in using electronic test and measurement equipment