Niklas Eriksson

Gothenburg, Sweden

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Education

Chalmers University of Technology

Master of Science in Embedded Electronic System Design

Aug 2018 – Jun 2020 | Gothenburg, Sweden

GPA: 4.4/5.0

Linköping University

Bachelor of Science in Computer Engineering

Aug 2015 – Jun 2018 | Linköping, Sweden

GPA: 4.2/5.0

Work Experience

Embedded Software Engineer | Volvo Cars | Jul 2020 - Present | Gothenburg, Sweden

- Developed real-time embedded software in C and C++ for automotive control units (ECUs).

- Worked with automotive communication protocols like CAN, LIN, and Ethernet.

- Utilized RTOS (Real-Time Operating Systems) like QNX or AUTOSAR.

- Performed unit testing and integration testing on hardware-in-the-loop (HIL) systems.

Skills

Programming: C, C++, Python (for scripting), Assembly (Basic)

Embedded Systems: Microcontrollers (ARM Cortex-M/A), RTOS (QNX, FreeRTOS, AUTOSAR basics), Device Drivers

Hardware Interfaces: SPI, I2C, UART, GPIO

Automotive: CAN, LIN, Automotive Ethernet, Diagnostics (UDS), ISO 26262 (Awareness)

Tools: Cross-Compilers (GCC, ARM Compiler), Debuggers (JTAG/SWD), Oscilloscopes, Logic Analyzers, Vector CANoe/CANalyzer, Git

Methodologies: Agile (Scrum/Kanban), V-Model

Certificates

None specified (Focus on experience)

Awards

Chalmers Scholarship for International Students (during Masters)