

marmenlind.com • Stockholm, Sweden • ollemarmenlind02@gmail.com • +46 72 426 37 99 • github.com/thewayla

Completing a B.Sc. in Computer Engineering at KTH at a 75% pace alongside industry engineering work. Focused on high-performance systems, real-time embedded software, and scalable .NET architecture bridging theory with production infrastructure.

Projects

- **FBG Interrogator (C#/.NET + C/FreeRTOS) — Industry R&D with Proximion AB**
 - Built a real-time PC host for live spectral visualization and peak analysis, enabling sub-millisecond sensor readout in lab trials.
 - Engineered a self-hosted Linux CI/CD pipeline using hermetic Docker containers to enforce linting, formatting, and build validation across firmware and PC-host repositories.
 - Co-developed firmware for a RISC-V SoC with USB bulk transfer and FreeRTOS task scheduling.
- **.NET Sales Catalog Generator (C#/.NET) — Sevan AB**
 - Designed and implemented a cross-platform desktop tool in C#/.NET to automate custom catalog creation for Sevan's sales team.
 - Integrated CSV product data, live image URLs, and remote syndication APIs to generate print-ready PDFs.
 - Reduced manual effort from hours to under three minutes with 100% data accuracy.
- **Sevan B2B Scan-to-Order (Kotlin / Native Android) — Sevan AB**
 - Architected a strict MVVM solution using Kotlin Coroutines and StateFlow to manage complex asynchronous scanning states on resource-constrained hardware.
 - Designed a fault-tolerant dual-layer data engine with Firestore batch transactions and automatic REST API failover (OpenFoodFacts).
 - Integrated Google ML Kit for zero-latency, fully on-device barcode processing in low-connectivity environments.

Experience

Sevan AB

Stockholm, Sweden (Remote)

Product Owner (Technical, Part-Time During Studies)

March 2022 – Present

- Progressed from E-commerce Intern to Product Owner while continuing full-time university studies.
- Authored technical specifications including API schemas and data models for external development teams.
- Defined QA test plans, triaged bugs, validated fixes, and configured and deployed GCP services.
- Provided technical B2B integration support and built a comprehensive internal documentation library.
- Collaborated cross-functionally to translate business requirements into technical solutions and development priorities.

Education

Royal Institute of Technology (KTH)

Stockholm, Sweden

B.Sc. in Computer Engineering

Expected June 2027

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Microcontrollers, Computer Networks, Databases

Skills

- **Languages:** C, Java, C#/.NET, Kotlin
- **Systems & Infrastructure:** Linux, Docker, FreeRTOS, RISC-V, CI/CD, Real-Time Systems
- **Data & Networking:** SQL, NoSQL (Firestore, MongoDB), REST, TCP/UDP
- **Tools:** Git, CMake, Bash