

[marmenlind.com](http://marmenlind.com) • Stockholm, Sweden • [ollemarmenlind02@gmail.com](mailto:ollemarmenlind02@gmail.com) • +46 72 426 37 99 • [github.com/thewayla](https://github.com/thewayla)

Computer Engineering undergraduate with production experience in distributed systems and cloud infrastructure. Proven track record of navigating ambiguity to deliver scalable .NET and embedded solutions in cross-functional R&D environments.

## Education

### Royal Institute of Technology (KTH)

#### B.Sc. in Computer Engineering.

Stockholm, Sweden

Expected June 2027

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

## Projects

### • FBG Interrogator (C#/.NET + C/FreeRTOS) – Industry R&D with Proximion AB

- Collaborated in a 6-person cross-functional team (EE/CE) as the primary developer for the firmware and PC-host layers.
- Architected a preemptive multithreaded system (FreeRTOS/RISC-V) using binary semaphores to synchronize high-priority ISRs with data processing.
- Engineered a ~\$500 4 channel, 90Hz prototype; matched performance of \$10k+ industrial systems.
- Developed C#/.NET host with USB Bulk Transfer for sub-ms sensor readout and visualization.
- Built a self-hosted Linux CI/CD pipeline using hermetic Docker containers to enforce linting, formatting, and build validation across firmware and PC-host repositories.

### • .NET Sales Catalog Generator (C#/.NET) – Sevan AB

- Developed a cross-platform desktop application using Avalonia UI, enabling unified deployment across Windows, Linux, and macOS from a single C# codebase.
- Built an ETL pipeline to ingest CSV datasets, merge remote assets via REST APIs, and render print-ready PDFs programmatically.
- Replaced manual design workflows with automated generation, reducing production time from hours to <3 minutes while eliminating transcription errors.

### • B2B Scan-to-Order (Android/Kotlin) – Sevan AB

- Architected a fault-tolerant Android application using Kotlin Coroutines for asynchronous concurrency, ensuring thread safety on resource-constrained devices.
- Engineered a distributed data synchronization engine with automatic failover strategies and atomic transactions, guaranteeing data consistency across cloud (Firestore) and external REST APIs.
- Integrated Google ML Kit for on-device barcode inference, eliminating network dependency to enable scanning operations in low-connectivity field environments.

## Experience

### Sevan AB

#### Product Owner (Technical, Part-Time During Studies)

Stockholm, Sweden (Remote)

March 2022 – Present

- Promoted to Product Owner; managed full B2B/B2C technical lifecycles with quarterly releases, driving 1100% user growth and 50% YoY revenue increase.
- Directed product roadmap and authored 400+ Jira tickets (including API schemas and data models) to coordinate development across two external partner teams.
- Architected ERP integrations and automated customer onboarding via make.com, TypeFlow, and Klaviyo, achieving a 90% subscription rate and 55% average open rate.

## Skills

- **Languages:** C, C++, Java, C#/.NET, Kotlin
- **Systems & Infrastructure:** Linux, Docker, FreeRTOS, RISC-V, CI/CD, Real-time Systems, Cloud Computing (GCP/AWS)
- **Data & Networking:** SQL, NoSQL (Firestore/MongoDB), REST, TCP/UDP
- **Tools:** Git, CMake, YAML/JSON