

# Martin Reinok

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MSc Embedded Systems

## WORK EXPERIENCE

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### Thales

Mar. 2024 – Sept. 2025

*Software and System Engineer*

*Hengelo, Netherlands*

- Lead R&D initiatives for training and simulation integration of Tacticos, a naval Combat Management System used in maritime security and defense operations for the F126 frigate.
- Developed proof-of-concept prototypes using C++ to validate new solutions and mitigate technical risks in training-critical systems.
- Designed 3 simulation prototypes replicating vendor-specific weapon control interfaces for the F126 frigate, enabling operators to train on virtual replicas of combat systems used in real operations.
- Responsible for maintenance and upkeep of testing hardware and high-performance servers.
- Installed hardened operating systems and performed BlackDuck scans to support secure software deployment.

### Estonian Defence Forces

Jul. 2021 – Jun. 2022

*DevOps and Network Engineer*

*Tallinn, Estonia*

- Engineered and implemented a Python-based network automation solution, reducing device configuration time by automating updates for Cisco, Extreme Networks, and Westermo devices.
- Developed custom Debian hardened operating system for internal operations and production releases.
- Deployed automation pipelines in Microsoft Azure, simplifying operational workflows and improving deployment efficiency in a VMware vCenter environment.

### Skeemipesa OÜ

Sept. 2020 – May 2021

*Software Developer / BSc Thesis*

*Tallinn, Estonia*

- End-to-end development of a production-ready machine vision system interfaced with Omron PLC.
- Designed and implemented the hardware solution, including electronics and weather-proof camera housing.

### FS Team Tallinn

Aug. 2018 – Sept. 2020

*Electric and Software Engineer*

*Tallinn, Estonia*

- Implemented the Control System for the Electric Formula using MATLAB/Simulink
- PCB development lifecycle using Altium Designer, including design, assembly, testing, and mounting.
- Designed and maintained a high-power electric charger for the Electric Formula.

## EDUCATION

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### University of Twente, Netherlands

07.2024

*Embedded Systems Master*

- Member of student organizations:
- Master Thesis: MRI-Guided Endovascular Interventions with CathBot Robotic Platform
- Best Student Paper Award (2nd Place): Automated Passive Tracking for MR-Guided Endovascular Interventions

### TalTech, Estonia

06.2021

*Electrical Engineering Bachelor*

- Member of student organizations: Formula Student Team Tallinn and Video Production Club
- Bachelor Thesis: Autonomous charging port identification for electric vehicles

## SKILLS & INTERESTS

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- **Skills:** Research and Development, Rapid Prototyping, Software Architecture, System Integration
- **Interests:** Digital Art Rendering, Sailing, Youthwork, Swimming, Tennis, Music, Photography