



Martin Reinok

Software / Hardware Engineer

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🔗 <https://martinreinok.com>

📍 Estonia

SKILLS

Languages

English: C1

Estonian: Native

A bit of Russian and Spanish

Electrical Engineering

Altium Designer

CAD

Catia V5

Solidworks

Programming

Python: Computer Vision, GUI,

Automation, Scripting

C/C++: Embedded Systems, Qt

Bash & PowerShell: Scripting, Docker, VMs

Java: OOP and TDD

Limited experience: JS, React, Rust

Other Computer Skills

3D Rendering (Cinema 4D)

Graphic Design (Illustrator)

Digital music (FL Studio)

Game development (C++, Unreal Engine)

Software and Hardware Engineer with experience in Automotive, Machine Vision, Networking and DevOps. Experienced with both low and high level coding languages.

EXPERIENCE

Software Developer

Estonian Defence Forces (Conscript) | 07.2021 - 06.2022

- Wrote a program that configures and updates networking devices such as Cisco routers and Extreme Networks switches using Python (netmiko, paramiko, tkinter).
- Designed many automation pipelines in Microsoft Azure and used VMWare vCenter environment.
- Developed and automated a custom Debian distribution for internal use.

Software Developer

Skeemipesa OÜ | 09.2020 - 05.2021

- Chose hardware for Machine Vision and developed a prototype system that was later permanently installed.
- Developed Machine Vision software using Python and an GigE camera (OpenCV, Lucid Vision Arena SDK) and interfaced it with an Omron PLC (Fins protocol).
- CAD Designed housing with a heating system for the camera (milled from aluminum)

Electric and Software Engineer

FS Team Tallinn | 08.2018 - 09.2020

- Designed, soldered and tested multiple PCBs (Altium Designer)
- Developed the Control System for the Electric Formula using MATLAB, Simulink and virtual environment simulations (IPG CarMaker)
- CAD designed, assembled and maintained a high-power electric charger for the Formula
- Produced media work such as videos, sponsor wall design, t-shirt design and renderings of the Electric Formula

EDUCATION

Electric Engineer and Mechatronics

TalTech | 09.2018 - 06.2021

Embedded Systems

University of Twente | 09.2022 - 08.2024