TÕNIS LUSMÄGI

CSE & EEE

PROFILE

30-year old Electrical- and Computer and Systems Engineer from Tallinn with 6 years of experience.

CONTACT

5455 6942
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lusberg.ee
Nõmme, Tallinn, Estonia

CODE

C / C++

VHDL

SYSTEMVERILOG

EDUCATION

MA - **COMPUTER AND SYSTEMS ENGINEERING** @ TALTECH

September 2017 – June 2019

I graduated in Computer and Systems Engineering from TalTech. I design Digital Systems - Systems-on-Chip. I'm proficient in Verification, Validation and Testing. Next to Computer Hardware Development, I'm competent in Automation, Software Engineering, Machine Learning and more. My main programming languages are C, C++, Java, Python and VHDL. I wrote my master's thesis on Intel SGX performance & security, independently discovering MDS (Microarchitectural Data Sampling) speculative execution vulnerability known as RIDL (Rogue In-Flight Data Load).

BA - **ELECTRICAL ENGINEERING** @ TALLINN UNIVERSITY OF APPLIED SCIENCES

September 2013 – June 2017

I graduated Cum Laude in Electrical Engineering from Tallinn University of Applied Sciences. I studied Electrical- and Control Systems Design from Electronics to High Voltage. I have electrician's A-level competency and Electrical Engineering EQF Level 6. I wrote my diploma thesis on Battery Systems for Electric Aircrafts.

SKILLS

- **Operating Systems:** Windows, **Linux**, Android
- **Office:** Microsoft Office, LibreOffice, WPS Office
- **Programming:** C, C++, C#, Python, Java, VHDL, SystemVerilog, SystemC, SQL
- **Programming (learning):** Rust, Go
- **EDA tools:** Xilinx Vivado, Mentor Graphics ModelSim/QuestaSim, KiCad
- **Electronics CAD:** Autodesk EAGLE
- **2D CAD:** Autodesk AutoCAD, CADS Planner
- **3D CAD:** Autodesk Fusion 360, Solid Edge, Rhino
- **Development Boards:** AVR, FPGA
- **Audio-Video-Photo Editing:** Adobe Premiere, Adobe Photoshop, GIMP
- **Languages:** Estonian (native), English (C1), German (A1), Russian (A1)
- **Interpersonal Skills:** competent in communication, collaborative work experience
- **Leadership Skills:** software project leading, team leading, business leading

WORK EXPERIENCE

SOFTWARE DEVELOPER @ MILREM ROBOTICS

May 2019 – present

Milrem Robotics manufactures unmanned ground vehicles for defense- and security forces, commercial and industrial clients, and rescue services. Milrem Robotics' THeMIS and Multiscope UGVs have gained worldwide recognition.

RESEARCH & DEVELOPMENT INTERN @ NIXOR

September 2018 – October 2018

Electronics Design and Software Development.

ELECTRICAL ENGINEERING INTERN @ ELEKTRILEVI

June 2016 – August 2016

Electrical Design for High Voltage Electrical Installations. Using CADS Planner, Microsoft Office and Network Information System (NIS).