

Tristan Šneider

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Foreword

Most of my projects are behind a login on a personal Gitea server. For access, please contact me.

Education

Univerza v Ljubljani - Fakulteta za Elektrotehniko

Ljubljana, SI

Univ. Dipl. Ing. in Electrical Engineering

Sept 2021

- Developed a USB macroboard firmware
- Started with Linux system administration

Srednja Poklicna in Tehnična Šola Murska Sobota

Murska Sobota, SI

Technician in Computer Technician

June 2014

- Second best in class
- Achieved good results in national competitions (best result second place)
- Did Cisco CCNA trainings
- Developed a fully fledged web shop in PHP without frameworks

Experience

Embedded Software Developer

Graz, AT

Siemens AG Österreich

Oct 2021 – Feb 2026

I used C99/C++11 as main languages to contribute on a Profinet implementation.

- Presently working on pluggable modularization
- 64-bit support

Software Developer - Student job

Murska Sobota, SI

Abak d.o.o.

June 2020 – Sept 2021

I used PHP/Rust/Ruby as required and created some Dockerfiles and got into Docker.

Software Developer

Ljubljana, SI

MedicoHealth (ICO Startup)

Sept 2018 – Oct 2019

I used Ruby on Rails as a framework for a search engine for medical professionals based on location and/or specialization.

Software Developer

Murska Sobota, SI

Rineja

2015 – 2020

I developed rineja.si (a landscaping webstore, closed since 2020).

Extracurricular Activities

- iSAQB Certification - Foundation Level
- CCNA Certification - Introduction to Routing & Switching
- C++17 Training - Introduction to STL
- Embedded Unit Testing Training
- Linux Administration Training
- Rust Programming Language Training
- Writing a blog at www.sneider.si

Projects

Snake game

Murska Sobota, SI

2011

I was challenged by a teacher to build a game in a week.

- OpenGL was really hard to grasp back then
- I made it in C++ (can't remember which standard)
- The snake was 1 pixel-wide and grew lengthwise by 1 pixel everytime you ate a 1 pixel-wide apple

3D Printer (Prusa i3 clone)

Murska Sobota, SI

2015

I wanted to have a 3D printer, but couldn't afford it, so I built my own.

- It was a fun process doing something without any plans
- I had some .dxf and .stl files from the Prusa i3, and got it working
- I didn't print any production-grade objects, but some minor housings for chargers, Arduinos and other objects

Asus Claw Linux userspace driver

Ljubljana, SI

2016

A Reverse-engineered Windows USB Mouse driver.

- I got into USB Packet monitoring with Wireshark
- I checked the USB 2.0 & HID 1.11 specification
- I delved into the depths of `driver/` directory in the Linux source tree

Old car digital temperature monitoring

Murska Sobota, SI

2023

A temperature monitoring UI for a Zastava Yugo '83.

- I tried out the ESP-IDF development platform
- ESP32 chips are really versatile and easy to use

3D Printed CNC Router (for circuits)

Murska Sobota, SI

2025

I needed a CNC machine to mill some circuit boards for prototyping and testing things out quickly.

- Plastic bends and is never 1:1 in size as it should be (even accounting for the 3D printed effect)
- I learned how to properly heat up plastic in a controlled environment to work around the bending

Airplane Throttle and Trim controller

Murska Sobota, SI

2026

To refresh my HID skills, I created (from initial concept to finished prototype) a plane control HID device with: 1 Button, 2 Rotary Potentiometers and 3 Linear Potentiometers.

- Learned how to get a product from initial concept to a working prototype
- Rust on AVR MCUs is (from the looks of it) sidetracked and therefore i gained experience with the C LUFA Library
- Reading multiple ADC channels sequentially can cause inter-channel influence, because of discharging of the ADC