






Personal Details


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 github.com/Xses-1

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Software Tools

STM Cube IDE

Easy EDA

FreeCAD + Cura

Linux

VIM, GIT

LTSpice

GCC/G++, GDB

Languages

English

Polish

Dutch

Profile

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Education

BSc Electrical Engineering
TU Delft

Sep 2022 - Jun 2025

Dutch Language Course
TU Delft

Sep 2021 - Jun 2022

Personal Projects

- Custom USB Joystick for Framework Laptop
 - Turns the device into a handheld
 - Utilizes laptop's expansion module dock
 - Driverless operation due to custom composite device USB descriptor
 - Fully custom-designed and 3D printed enclosure
 - Utilizes STM32F042 32bit ARM microcontroller
- Custom USB Keyboard (link)
 - Fully custom design including the firmware and USB descriptor
 - Utilizes STM32F042 32bit ARM microcontroller
- Parallel Port P.O.S.T Codes Reader (link)
- Broadband and Weather Satellites Reception System
 - 160m-long long wire antenna
 - Dual crossed dipole antenna for 137Mhz - 145Mhz
 - High pass filter with LNA for 137Mhz
 - RTL SDR and Raspberry Pi based server
- Electric Guitar Amplifier and Effects System
 - Includes the only one existing replica of 1950s Selmer TV10 PA amp (link)
 - Various custom build and designed guitar effects (link)

University Projects

- Autonomous Robot System (link)
 - Similar concept to the Micro Mouse competition
 - Made using FPGA, computer application written in C, and XBee modules
 - Group project
- Audio Amplifier System
 - Simple amplifier and crossover design
 - Group project

Hobbies

- Restoration and Preservation of Vintage Electronics
- Amature Radio
- Vintage Cars and Motorcycles
- Sports Shooting
- Fencing
- Music

Soft Skills

- Analytical / Problem Solving
- Design Creativity
 - Acquired through the process of designing various electronics devices
- Leadership Management
 - Board member of the Leiden Toastmasters Club (2022 - 2023)
- Public Speaking / Communication
 - Active member of the Toastmasters organization
 - Active member of Delft Improv Group

Hard Skills

- Power User
 - Experience with Linux Terminal
- Programming and Description Languages
 - C/C++
 - VHDL
 - LaTeX
 - Bash
 - Assembly
 - Python
- Embeeded Systems Designing and Prototyping
 - SMD assembly (hot air and traditional soldering)
- Expirience with Verious Test Equipement
 - Oscilloscope and function generator
 - FFT analyzer
 - Digital Signal Analyzer / Digital Protocols Decoder (I2C, SPI, UART, USB)