






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

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

## Soft Skills

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- 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

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- 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)