Wiktor Tomanek

Personal Details

Wiktor Tomanek

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AM B

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

Very enthusiastic and passionate electrical engineering student with significant experience in the design and implementation of embedded systems, C/C++ programming, public speaking, communication, and management. Engineering skills acquired through various successful projects. Communication skills through highly active participation in organizations such as Toastmasters. Looking for a part-time job in the management and marketing field to pursue the career of engineering manager with a background in electronics and to further develop professional skills and acquire more real-life experience.

Education

BSc Electrical Engineering   **Sep 2022 - Jun 2025**
TU Delft

Dutch Language Course   **Sep 2021 - Jun 2022**
TU Delft

Personal Projects

- Custom USB Joystick for Framework Laptop
  - Turns the device into a handheld
  - Utilizes the laptop's expansion module slots
  - 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 Wheather Sattelites 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

- Autonymous 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 electronic 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

- Embedded 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)