Štěpán Pressl

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Education

High school: Gymnázium Jaroslava Vrchlického v Klatovech, 8 year grammar school
College: FEE CTU in Prague, Cybernetics and robotics, 2021-present

Experience

AŽD Praha:

- 2022-present, part time job during studies
- currently developing firmware for unified train safety and signalling systems
- integration of software testing scenarios

Projects

Motor control unit applicable for prototyping and education

- a motor control hardware which is part of my bachelor thesis
- supervisor: Ing. Pavel Píša, PhD.
- link to a repository: `https://gitlab.fel.cvut.cz/otrees/motion/samocon`
- cooperation with ÚTIA AV ČR for controlling piezoelectric actuators
- based on `ATSAMV71Q21` microcontroller from Microchip

Personal projects

- personal vacuum tube amplifiers (mostly A class amplifiers)
- restoration of old vacuum tube radios for personal collection

SKILLS

- **Hardware:** knowledge of PCB design in `Kicad`, design of own HW solutions
- **Software:**
  - experienced with `git`
  - experienced with `C++`, `C`, `Python`
  - can read and code in `VHDL`, assembler (Arm, Risc-V)
  - personal interest in low-level applications
  - experience using `Linux`