Kanan Abdullayev

Electrical Engineering Student | Building, Testing, and Debugging Hardware

kenan555abdullayev@gmail.com +420728285215 Chaloupeckého 1914

linkedin.com/in/kanan-abdullayev-engineer https://kananabdullayev.dev

PROFILE

I'm an Electrical Engineering student at CTU FEL focused on hardware development and embedded systems. One word to describe me is prototyping - I do lots of it! I don't just stick to theory, but I actually spend my time on the workbench, creating circuits that integrate various electronic components and tools such as microcontrollers, sensors & modules, passive & active components, multimeters, oscilloscopes, circuit simulations and it's just the start. I bridge the gap between software and hardware with my experience of building circuits and prototypes from scratch. I'm looking for an internship where I can apply and improve my skills in prototyping, testing, and debugging to solve real engineering challenges and learn from professionals.

EDUCATION

Faculty of Electrical Engineering, Czech Technical University 09/2024 – Present
Electrical Engineering and Computer Science Prague
Relevant Coursework: Microcontrollers, Circuit Technology, Radio Technology.

PROJECTS

Radio Receiver 03/2026 – 04/2026

- Built radio receiver by using ESP32 with a TEA5767 radio module via I2C communication.
- Audio amplification was done by LM386 Op-Amp and passive components such as resistors and capacitors.
- Handled all physical tasks such wiring, soldering and and my most favourite debugging.

Morse Code Translator with Photodiode 04/2026 – Present

- Built a system that captures laser/light flashes through a photodiode and translates the optical morse code into readable digital text.
- Wrote C logic for ESP32 to analyze raw data, and determined precise timing intervals to differentiate between symbols and letters in morse
- Used active and passive components such as 2N2222 BJT transistor and resistors to process the analog signal.

SKILLS

Hardware & Electronics

- Microcontrollers (ESP32, PIC)
- Protocols: I2C, SPI, UART
- Discrete Circuit Design: Transistors, Op-Amps, Diodes, Passive Filters
- Workbench: Prototyping, Hardware Debugging, Soldering

Programming & Software

- C Programming
- Python
- Git Version Control

Lab & Simulation Tools

- Oscilloscopes & Multimeters
- NI Multisim & LTspice
- MATLAB & Wolfram
- Arduino IDE & mikroC

LANGUAGES

English — Native/Bilingual

Russian — Fluent