

Ferenc Kanizsai

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EDUCATION

Kandó Kálmán Technical Secondary School, Kecskemét **September 2021 – Present**
Electrotechnics - Industrial IT Technician Grade average: 4.25/5.0
Key Subjects: Database Management, Web Development, PLC Programming, Robotics, IoT, Control Engineering

EXPERIENCE

Internship, Kandó Kálmán Technical Secondary School **June 2024 – July 2024**
• Web development, learning the basics of HTML and CSS, building responsive websites, creating the foundation of a portfolio and completing a project task.

Internship, Kandó Kálmán Technical Secondary School **July 2025 – August 2025**
• Internet of Things (IoT), introduction to ESP32, Python (MicroPython), establishing communication between multiple devices and completing a project task.

PROJECTS

Communication Between Devices, Kandó Kálmán Technical Secondary School **March 2026**
• Implemented WiFi-based communication between two ESP32 devices
• Used the Home Assistant operating system to build a smart home system
• Integrated sensors and devices under centralized control
• Created automations to improve system efficiency

Quality Control System, TISZK Nonprofit Public Benefit Ltd. **February 2026 – March 2026**
• Designed and programmed an S7-1200 PLC-based control system
• Developed a KP-400 BASIC HMI interface and operator logic
• Built an automated quality control process
• Integrated sensors and implemented data processing for error detection

Robot Arm Control, TISZK Nonprofit Public Benefit Ltd. **February 2026 – March 2026**
• Programmed and controlled a Universal Robots robotic arm
• Created a coordinate system and implemented precise positioning
• Developed and optimized an automated disc-stacking process
• Tested motion processes, performed debugging, and fine-tuned the system for stable operation

Tic-Tac-Toe Game, Kandó Kálmán Technical Secondary School **January 2026 – February 2026**
• Developed an interactive Tic-Tac-Toe game using HTML, CSS and JavaScript
• Designed a clean and user-friendly interface
• Implemented game logic and optimized performance

Home Server, Kandó Kálmán Technical Secondary School **January 2026 – February 2026**
• Simulated and configured a home server environment using Debian Linux and CasaOS
• Set up remote access and file server functionality
• Configured and managed automated services

SKILLS

Design: Figma, Blender, Tinkercad, Cisco Packet Tracer, Office 365

Programming / Control: HTML, CSS, JavaScript, Python