VÁGÁNY PÉTER

Software Consultant

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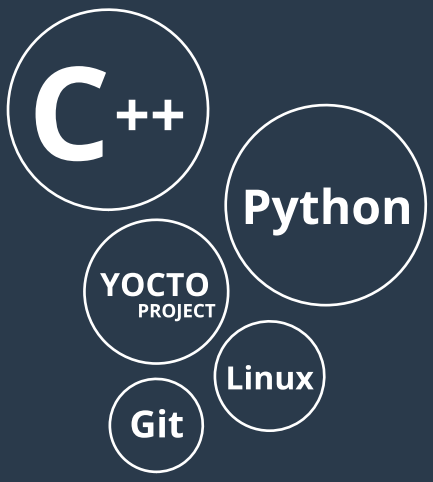


EXPERIENCE

2023 - present (2 years)
Koodika Oy (self-employed)
Software Consultant

2021 - 2023 (2 years)
Etteplan Finland Oy
Senior Software Designer

2018 - 2020 (2 years)
Cognex Corporation
Embedded Software Engineer

2017 - 2018 (1 year 9 months)
Hyundai Technologies Center Hungary
Software Engineer

EDUCATION

2012 - 2017
Budapest University of Technology and Economics
- Master of Science, Electrical Engineering
- Embedded Systems, Power Electronics

SKILLS

Main skills: C, C++, Python, Linux, Security, Yocto, Shell Scripting, Git, Security, Integration, Embedded Systems, Test Automation, Code Review, Unit Testing

Other skills: JavaScript, React, Robot Programming, GUI Development, Java, Docker, Jenkins, TeamCity, Software Update, NXP i.MX, Software Signing, Encryption, TPM (Trusted Platform Module), U-Boot, Bluetooth, USB, MQTT, CAN, Schematics

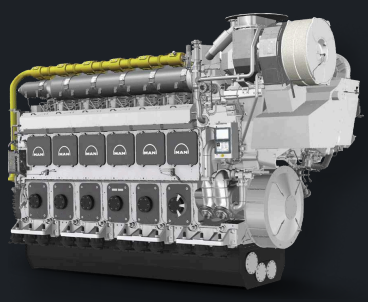
I am an electrical engineer with strong software development experience across diverse product development projects. I worked in agile software teams with a focus on design, development and testing of software and processes for embedded devices. I am suited for demanding software development tasks and I can take a key role in a team or solve complex problems alone.

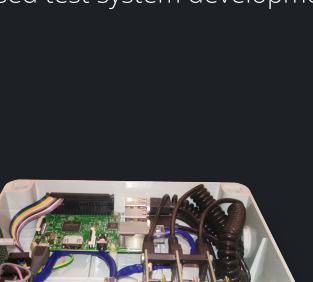
Aidian QuikRead go Plus Instrument

Etteplan developed the hardware and software of Aidian's next generation QuikRead go Plus in vitro diagnostics instrument. I was responsible for creating a stable and secure distribution based on Yocto and Linux, serving as a base for the medical applications.

MAN Energy Solutions SaCoS 5000 control system

The customer developing an engine control system experienced anomalies after updating their software stack. I helped unblocking the update process by tackling obscure problems originating from the Linux kernel and legacy applications.



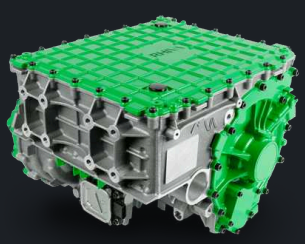


Schaeffler OPTIME Gateway

I was one of the key software engineers responsible for creating and maintaining embedded Linux images for this new IoT edge gateway, based on the Yocto Project. Features I worked on include secure device certificate enrollment (Trusted Platform Module - TPM), NXP i.MX6 secure boot with remote signing, disk encryption, manufacturing software, configuration user interface (React, Python).

Cognex DataMan 8700 Series Handheld Barcode Reader

I was part of a team responsible for porting a huge legacy C codebase to run on the company's first Linux platform. My tasks included C++ and Python application development (Bluetooth, USB, MQTT) with extensive unit testing and code reviews, Linux maintenance (Yocto recipes, system services, devicetree), unit test and build automation (Docker, TeamCity).



RHIVA Electric Drive Unit

Test system development for an automotive electric drive unit including communication and business logic for test instruments (e.g. LeCroy Motor Drive Analyzer oscilloscope) in a Java based test system. Build automation of embedded software components with Jenkins.

Hyundai N700A low voltage inverter family

Embedded C development on STM32 Arm Cortex MCUs with Keil RTX real-time OS (UART, I2C communication, ADC, temperature sensor drivers). HMI display application layer (µGFX lib). Semi-automated hardware testing.
Python based test system development (communication, assertions, logging).

Algae biorefinery prototype data acquisition

Data logging and sensor calibration solution for algae biorefinery prototype. Custom Raspberry Pi casing and assembly with Atlas Scientific sensors (temp., pH, DO). Sensor interfaces and database implementation in Python. Wi-Fi web interface for sensor calibration and data export in Excel format (Python backend, HTML, JavaScript)