

## MATIAS VALTER GRAHN

### LINKS

- LinkedIn: [www.linkedin.com/in/matias-grahn-a0008a282](https://www.linkedin.com/in/matias-grahn-a0008a282)
  - Portfolio website: <https://matiasgrahn.github.io/index.html>
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### Professional summary

Final-year IT Engineering student (VAMK) specializing in embedded systems and cybersecurity (Modbus/CAN-bus). Strong expertise in IT automation (PowerShell), version control (Git), and network technologies. A solution-oriented developer with a passion for technical documentation and mastering new systems.

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### Projects - Detailed documentation and source code available on my portfolio site

#### Battery Management System (BMS | School project)

A monitoring system for battery packs to track cell voltages and state-of-charge.

#### Local Temperature Monitoring System (DHT-22 | School project)

An Arduino/ESP32-based environment monitor for real-time temperature and humidity data.

#### Technical Portfolio & GitHub Site

A professional platform showcasing source code, documentation, and personal engineering projects.

#### PowerShell Diagnostics Tool

An automation script for Windows system diagnostics and health report generation.

#### Windows Server 2022 & Azure Lab

A hybrid cloud environment featuring Active Directory integration and virtual networking.

#### Industrial Data Collector & Visualizer (Python)

A Python application for gathering, processing, and visualizing industrial sensor data.

#### Tabata timer application for Android (Kotlin)

A modern Jetpack Compose application featuring customizable intervals, audio cues, and state management.

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### Education

- **B.Eng. in Information Technology, Vaasa University of Applied Sciences** (2021–Present / Estimated graduation 2026).
  - **Matriculation Examination & Vocational Qualification in Automotive Technology**, Helsinki Upper Secondary School of Natural Sciences (2015–2018).
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### Technical Skills

#### IT – Systems and Tools

- Operating Systems: Windows 10/11 & Linux (Ubuntu, Debian, and Kali).
- User Management: Fundamentals of Active Directory (AD) & Azure.
- Hardware Expertise: Installation, configuration, and troubleshooting of workstations, laptops, and peripherals.
- Programming: Foundations in HTML, CSS, JavaScript, C, C++, and Python.
- Version Control: Foundations in Git version control and collaboration via GitHub.

#### Networking and Security

- Networking: Knowledge of LAN, WAN, and WLAN protocols; connectivity troubleshooting.
- Cybersecurity: Strong grasp of security fundamentals, device compliance, and secure workflow.

#### Other Skills

- Documentation: Technical documentation and creating clear user/system guides.
  - Problem-solving: Solution-oriented mindset with a proven ability to learn new systems and tools.
  - Languages: Finnish (Native), English (Excellent/Professional Working Proficiency).
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### Hobbies and Interests

- Bouldering: I enjoy indoor climbing, which challenges my problem-solving skills and keeps me strong.
  - IT Home Lab: Building and maintaining home lab environments to test server setups.
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### Work Experience

#### Automotive Mechanic (2016 – 2019)

- Responsible for maintenance and repair projects requiring high precision and logical problem-solving.
- System diagnostics and troubleshooting within modern vehicle control systems.

#### Logistics Worker, Helsinki City Bikes (Summer 2020)

- Main responsibility was the transport and distribution of city bikes in the Helsinki and Espoo areas.
- Assisted with on-site installation of docking stations and diagnosed charging issues.

#### Construction Assistant, Bolt (Summers of 2022 – 2024)

- I worked in a dynamic construction environment, performing material transport and site maintenance.
- Operated professional-grade power tools and assisted in basic site infrastructure setup.