

# MATTEO PETRERA

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## EDUCATION

### Management Engineering - L8

2020-2023

- Bachelor's degree @ Polytechnic of Turin, TO
- Focused on optimizing business processes, operations management, and data-driven decision-making. Acquired skills in project management, programming paradigms, supply chain optimization, and industrial systems, complemented by a strong foundation in engineering principles and analytical tools.

### Computer Engineering | Software - LM32

2023-current

- Master degree @ Polytechnic of Turin, TO
- GPA: 3,6
- Specialized in advanced software development, system design, and computational problem-solving. Gained expertise in software architecture, cloud computing, AI, and cybersecurity, with hands-on experience in developing scalable and innovative software solutions.

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## PROFESSIONAL EXPERIENCE

### Internship @ ENERCON SERVICE ITALIA S.r.l

- During my internship at ENERCON SERVICE ITALIA, I supported various office tasks such as translations and document processing. I also gained valuable skills in drafting documents and attended a Health & Safety course. Additionally, I was involved in managing archives and performing other general administrative duties.

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## PROJECTS

**Personal Website:** [www.mvpetrera.io](http://www.mvpetrera.io) (for additional information)

### Kiruna Explorer

- Developed in group a web application in collaboration with Kiruna city (Sweden) and stakeholders, enabling citizens to explore the city through document-based insights.
- Implemented key features, including a dynamic city map with document-linked areas, a document relationship diagram, and dual views for urban planners and citizens.
- **Utilized:** Typescript programming, React-Flow, Bootstrap, Google Maps API, Vite, and other modern libraries and frameworks.

### Emergency Backup Service

- Developed a Rust-based service application for executing backups in critical situations (e.g., unusable screen).
- Implemented mouse pattern recognition to initiate backups without a traditional GUI, enhancing accessibility for non-technical users.
- Integrated monitoring features, including detailed logging of CPU usage and backup operations for performance analysis and system optimization.
- **Utilized:** Rust programming, along with libraries such as rdev (mouse event handling), sysinfo (CPU monitoring), rodio (audio playback), egui (GUI).

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## SKILLS

**Software:** (proficient): Typescript, Javascript, Rust, Git (familiar): Python, C++, Kotlin, SQL, HTML/CSS