

Michele Pagani

Mechanical Engineer



<https://michelepagani.me>

Personal



Zürich, Switzerland

Languages

Italian	Native
English	Fully Professional
German	Fully Professional
French	Fully Professional

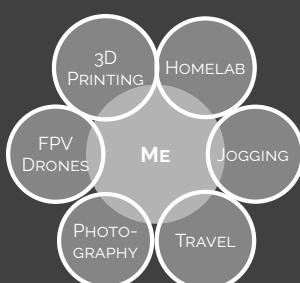
Frameworks & Tools

Agile	Jira, Asana, Trello
Design	Penpot, Inkscape, Figma
CI/CD	Jenkins, Git, Docker
CAD	Siemens NX, Onshape, Blender
AI/ML	PyTorch, TensorFlow
Web	React/Next.js, Svelte/SvelteKit
Other	C++, Rust, C, Python, Java, TS/JS, Fortran, Lua, C#

Degrees

MSc Mechanical Engineer	2025 · ETH Zürich
BSc Mechanical Engineer	2021 · ETH Zürich

Interests



ENGINEERING & STRATEGY

Jul 2025

– Apr 2024

– Mar 2023

– Dec 2021

– Feb 2022

– Feb 2021

– Jun 2021

– Dec 2020

– Sep 2020

– Sep 2018

– Jun 2016

– Apr 2016

Consultant & Software Engineer

P-STRATEGIC FINANCIAL ALLOCATION · Lugano, Switzerland

- Re-architected core financial analytics engine, achieving 10x-1000x performance increase.
- Led strategic UI/UX redesign initiative to guide future development.
- Introduced key agile principles, improving communication and transparency.



Engineering Lead, Propulsion & Navigation System

SWISSLOOP TUNNELING · Dübendorf, Switzerland

- Led 9-person engineering division responsible for all navigation and motion systems of a Tunnel Boring Machine.
- Ideated and developed digital twin of the machine propulsion system.
- Secured 2nd place and Innovation Award co-leading the Electronics & Software team in the 2023 *Not-a-Boring Competition* in Bastrop, TX.



Data Scientist

TAKEDA · Opfikon, Switzerland

- Solved core performance bottlenecks of C-suite analytics platform via multi-layer caching solution, enabling real-time analysis.
- Developed reusable platform to build digital twins enhanced by AI, empowering non-technical experts to independently optimize manufacturing processes.



Independent Project Lead

LYNCHPIN CONTEST BY TERENCE HOWARD · Global

- Engineered an award-winning drone capable of true 6-DOF flight, decoupling orientation from movement.
- Executed complex system integration, modifying core flight software to control a custom hardware layout.
- Achieved joint 1st Place in the global competition.



Lead Engineer & AI Controls Lead

FTERO · Zürich, Switzerland

- Led hardware design and flight testing for a 5m prototype, successfully validating the core airframe and physical systems.
- Architected a high-fidelity digital twin to train a Reinforcement Learning (AI) agent on optimal energy-generating flight patterns.
- Delivered the project's primary proof-of-concept by developing an AI control policy that achieved net-positive energy in simulation.



Financial Analyst Intern

SFP ASSET MANAGEMENT · Singapore

- Analyzed green-tech investment opportunities across SEA markets, presenting strategic recommendations to leadership.
- Simultaneously achieved conversational Mandarin proficiency via an intensive language immersion program.



COMMUNITY LEADERSHIP & ENGAGEMENT

2019–2022

Head of National Events

LAUREANDI ILLUSTRI D'OLTRALPE (LIDO) FEDERATION · Nationwide, Switzerland

- Led the national events department and ran the annual strategic workshop, aligning all member association leaders on federation-wide growth and risk initiatives.
- Navigated high-stakes political conflicts between members, building agreement to keep the federation unified.

2017–2022

Digital Transformation Lead & Head of Communications

ASSOCIAZIONE STUDENTI TICINESI A ZURIGO (ASTAZ) · Zürich, Switzerland

- Led communications and events for 1,200+ members, growing newsletter reach by 20% while managing large-scale events for over 1,400 attendees.
- Solved major operational risks by building a custom web app that secured member data, cut event check-in staff by 50%, and enabled data-driven marketing.

2015

Field & Communications Volunteer

PROMOTION ET DÉVELOPPEMENT HUMAIN (PDH) · Lomé, Togo

- Successfully integrated with a local team in Togo, overcoming cultural and language barriers to contribute directly to sensitive social aid and community support programs.