

Michele Pagani

Mechanical Engineer



<https://michelepagani.me>

Personal


Zürich, Switzerland

Languages

Italian	Native
English	Fully Professional
German	Fully Professional
French	Fully Professional

Frameworks & Tools

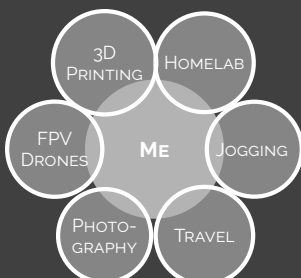
Agile	Jira, Asana, Trello
Design	Penpot, Inkscape, Figma
CI/CD	Jenkins, Git, Docker
CAD	Siemens NX, Onshape, Blender
AI/ML	PyTorch, TensorFlow
Web	React/Next.js, Svelte/Sveltekit
Other	C++, Rust, C, Python, Java, TS/JS, Fortran, Lua, C#

Degrees













MSc Mechanical Engineer
2025 · ETH Zürich 

BSc Mechanical Engineer
2021 · ETH Zürich 




Interests



ENGINEERING & STRATEGY

Jul 2025 – Apr 2024	Consultant & Software Engineer P-STRATEGIC FINANCIAL ALLOCATION · Lugano, Switzerland  <ul style="list-style-type: none">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.	
Mar 2023 – Dec 2021	Engineering Lead, Propulsion & Navigation System SWISSLOOP TUNNELING · Dübendorf, Switzerland  <ul style="list-style-type: none">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 <i>Not-a-Boring Competition</i> in Bastrop, TX.	
Feb 2022 – Feb 2021	Data Scientist TAKEDA · Opfikon, Switzerland  <ul style="list-style-type: none">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.	
Jun 2021 – Dec 2020	Independent Project Lead LYNCHPIN CONTEST BY TERRENCE HOWARD · Global  <ul style="list-style-type: none">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.	
Sep 2020 – Sep 2018	Lead Engineer & AI Controls Lead FTERO · Zürich, Switzerland  <ul style="list-style-type: none">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.	
Jun 2016 – Apr 2016	Financial Analyst Intern SFP ASSET MANAGEMENT · Singapore  <ul style="list-style-type: none">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  <ul style="list-style-type: none">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  <ul style="list-style-type: none">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  <ul style="list-style-type: none">Successfully integrated with a local team in Togo, overcoming cultural and language barriers to contribute directly to sensitive social aid and community support programs.

 michelepagani.me  [pagani-michele](#)  +41  Zürich, Switzerland