

Education and Awards

ETHZ : Swiss Federal Institute of Technology in Zurich - MSc in Mechanical Engineering 2026 - present

- Coursework includes Aeroelasticity, Aircraft and Car Aerodynamics and Flight Mechanics, Principles of Air Transport, Biomedical Engineering, Engine Systems, Rehabilitation Engineering and Renewable Technologies.

EPFL : Swiss Federal Institute of Technology in Lausanne - BSc in Mechanical Engineering 2023 - 2026

- Coursework includes structural mechanics, physics-based mechanics, thermodynamics, fluid mechanics, mathematics, electromagnetism, probability and statistics, supply chain management, materials behaviour, materials sciences, dynamical systems, electronics, electrical sciences, artificial intelligence and machine learning, control systems, and finite element methods.
- Developed technical proficiency in Python, C, MATLAB, LabVIEW, Dassault Systèmes CATIA and Fusion 360.
- Conducted hands-on projects including the design and construction of a forestry winch and a robotic arm.

Brevet d'Initiation à l'Aéronautique (Certificate of Introduction to Aeronautics) – Passed with highest honors 2019

Ecole Alsacienne, Paris French Baccalaureate 2016 - 2023

- Scientific Track with Mathematics Specialisation – obtained with highest honours

Experience

Touring Charlie - Web App Developer for the display team September 2025 – present

- Designed and built an installable web app (desktop and mobile) covering flight planning, pilot logbooks, training progress tracking and air show preparation.
- Implemented role-based access by member rank, enforced both in the app and in the database.
- Started development solo, then continued with AI coding tools; the app is used daily by the whole team.

Swiss Solar Boat - Hydrogen System Design and Integration January – September 2026

- Design of the hydrogen system
- Conducted feasibility and risk assessments for the hydrogen system
- Implemented the hydrogen circuit within the boat
- Integrated and prepared the high-pressure tank
- Preparation of the system for Monaco Energy Boat Challenge Competition

Teaching Assistant EPFL - Physics Mechanics Sept 2024 – Feb 2025

- Contributed to the implementation of course strategy and learning objectives
- Designed and developed revision materials
- Led exercise session and corrected mock tests

Thales (French electronics group specialised in aerospace) - Observation Internship 2022

- Shadowed engineering teams to discover digitalisation in the context of "Industry 4.0".

Aeronautical Experience



Private Pilot License (Airplane) : 07/2022

UltraLight License : 07/2024



145 flight hours since 2019, including 90 hours as pilot in command with 80 flight hours in patrol flying and aerobatics.

- Pilot at the "Touring Charlie" display team. Flew the left wing position during the opening segment of the Patrouille de France's final display of the 2025 season.
- #2 left wing position for 2025/2026 season.
- #3 right wing position and rear box leader for 2026/2027 season.

Planes authorised : Pioneer 200, PA19, Aquila AT01, VL3, PA28, WT9, C172/182

Associative Experience

- Member of the committee of student association, in charge of the communication, recognised by the Swiss Federal Institute of Technology (2025/2026)
- Active member of Aero Touring Club de France (since 2019)

Skills

Languages : French (native), English (C1 – IELTS 7.5), Spanish (basic)

Digital Tools : Office & Google Suite, Python, HTML/CSS, LaTeX, C, LabVIEW, MATLAB, 3DEXPERIENCE CATIA (Catia v6), Fusion360

Sports : Krav Maga (yellow belt), Windsurf, Ski, Rock Climbing, Rugby, Tennis

Driving License (car)