

Janne Stiefel

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EDUCATION

- **ETH Zürich**
BSc Mechanical Engineering – GPA: 5.1/6.0
September 2024 – Ongoing
Zürich, Switzerland
- **Wilhelm-Gymnasium**
German Abitur – GPA: 1.4
February 2016 – July 2023
Hamburg, Germany
 - NATEX science-competition award; school honours for rowing and paramedic service
- **Redlands School**
Exchange Program
July 2019 – December 2019
Sydney, Australia
- **Dulwich College Shanghai**
Junior School
August 2010 – June 2014
Shanghai, China

EXPERIENCE

- **CRATER – ETH Zürich Rover Team**
Drilling Subsystem Engineer
April 2026 – Ongoing
Zürich, Switzerland
 - Designing and prototyping a rover-mounted drilling system for the European Rover Challenge 2026: 35 cm drill depth in sand, ≥ 100 g sample extraction
 - Designed mechanical assembly (70 cm auger in carbon tube, spindle-driven linear unit, motor/gearbox selection) and power integration into the rover
 - Collaborating in a small sub-team within ETH's first-ever rover team; full CAD→prototype→test loop
- **Cercle de l'aviron de Marseille**
Service Civique Volunteer
November 2023 – March 2024
Marseille, France
 - Organized international regatta exchange
 - Trained youth in rowing, promoting sports education and teamwork
- **Montblanc**
Intern, Creative Management – Design Studio
January 2020
Hamburg, Germany
 - Applied CAD tools and managed an independent design project from concept to presentation

PROJECTS

Photos, videos, and technical write-ups: [jannestiefel.com](https://www.jannestiefel.com)

- **Rocky – 3D-Printed Quadruped Robot**
Co-built, two-person team
2025 - ongoing
 - Designed and assembled a 12-DOF quadruped (3D-printed chassis, 12 servos at 3 per leg, ESP32 + Jetson Orin Nano)
 - Wrote ROS2 control stack in Python and C++: gait controller, inverse kinematics, servo angle mapper, and serial bridge to the microcontroller
- **Jeff – Voice-Controlled Autonomous Robot**
Solo build – mechanics, electronics, firmware, software
2025
 - Built a mobile robot running a local LLM (Ollama), Whisper STT, Piper TTS, and YOLO object detection fully on-device on a Jetson Orin Nano.
 - Implemented object-aware navigation: natural-language commands ("go to the bottle") parsed into steering and drive primitives executed on an Arduino motor controller.
- **Nautiq – Mobile App for Sailors**
Solo founder – product, design, build, launch
2026 - ongoing
 - Designed, built, and shipped an iOS app (Expo, React Native, Supabase) for sailors to log and search boat-repair knowledge; live on the App Store.

HONORS AND AWARDS

- **German National Rowing Championships – Essen 2023**
DRV – Deutscher Ruderverband
July 2023
 - 2nd place JMA 8+, 3rd place JMA 4+ – German National Rowing Championships 2023

SKILLS

- **Technical:** Siemens NX, Autodesk Fusion, Onshape, Python, C++, ROS2, Embedded
- **Languages:** German (Native), English (C1), French (B2), Latin (Latinum)
- **Interests:** Rowing, Sailing, Classical and Electric Guitar


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Zürich – June 5, 2026