QUENTIN DELFOSSE
Robotics Engineer

INFORMATION

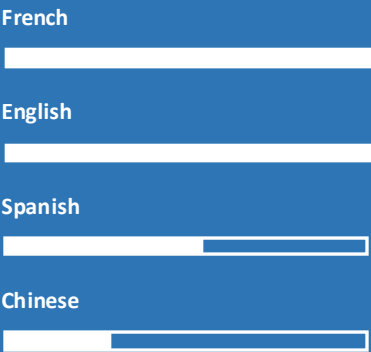|	
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Birth Date	01.26.2000
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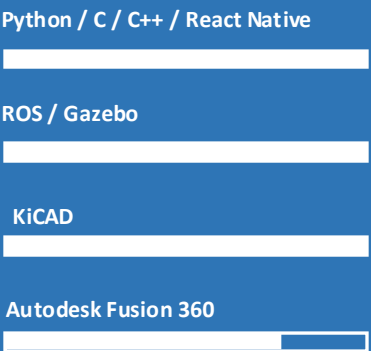## HOBBIES

Electronics, Tennis, Golf (Green Card & Regional Arbitration License), Handball, Piano, Traveling

LANGUAGES

French

English

Spanish

Chinese

SOFTWARE SKILLS

Python / C / C++ / React Native

ROS / Gazebo

KiCAD

Autodesk Fusion 360

PROFILE

Passionate about robotics and fascinated by the potential of autonomous robots. Electronics maker at heart, always looking for new learning opportunities. Believer in the positive impact of open communication within the team to build a trusted and motivating work environment.

PERSONAL SKILLS

Perseverance, Rigor, Adaptability, Stress Management, Team Management, Team Motivation, Public Speaking

EMPLOYMENT HISTORY

Caltech — Pasadena — 01.2025 – 07.2025
AI & Robotics Research Engineer: Designing, prototyping, testing and operating multimodal drones. Researching software & hardware architectures for autonomous navigation in collaboration with humans in urban terrains.

MVbotics — Zürich — 09.2023 – 03.2024
Electrical Engineer Intern: Designing, prototyping, testing and interfacing tester PCBs to ensure adequate quality of the company's manufactured hardware prior to robot assembly.

EPFL — Lausanne — 09.2021 – 01.2023
Student Assistant (Electronics and Electrical Systems I & II): Teaching Bachelor students the fundamentals of electronics (linear circuits, Bode diagrams, transistors, OpAmps and filters).

EDUCATION

Caltech — Pasadena — 03.2024 – 09.2024
Master's Thesis in Reinforcement Learning for Robotics
Focusing on applying reinforcement learning to train a multimodal robot to pass obstacles and deploying a ROS-based autonomous navigation pipeline.

EPFL — Lausanne — 2021 – 2024
Master's Degree in Robotics and Space Technologies
Specialized in machine learning, electronics and embedded systems.
Certified by ESA for taking part in its Concurrent Engineering Challenge 2022.

EPFL — Lausanne — 2018 – 2021
Bachelor's Degree in Microengineering with Distinction
Awarded for commitment in a MAKE Project (student-led interdisciplinary project) by co-founding and leading a space robotics project in collaboration with international partners.

Fénelon — Paris — 2017 – 2018
Intensive Foundation Degree in Physics
Conducted a research project on the mapping capabilities of autonomous vehicles based on the use of a rotating 1D LiDAR.

Lycée Henri-IV — Paris — 2010 – 2017
High School Diploma in Sciences with Distinction (Excellent)
Specialized in Mathematics and Programming.
Awarded 1st Prize at School's History Contest in 2016.

EXTRA-CURRICULAR ACTIVITIES

Co-Founder — Lausanne
EPFL Xplore is a student-led project designing rovers for space mission simulations in Europe. Founded in 2020, the project involves 100+ students from all schools of the Swiss Federal Institute of Technology.

AWARDS
European Rover Challenge 2023: 3rd place overall, 1st place in Maintenance
European Rover Challenge 2022: 2nd place overall, 1st place in Navigation
European Rover Challenge 2021: 3rd place overall, 1st place in Science & Probing

09.2022 - 09.2023
Drone Embedded Systems Engineer & Pilot: Design of the avionics board of a drone, development of the embedded flight software (telemetry, sensor data acquisition, motor control, FSM, safeguards) and pilot.

09.2021 - 09.2022
President: Management of a team of 80 members, in charge of strategy and project visibility, external partnerships development, public relations, contracts negotiation, financial management.

09.2020 – 09.2021
Vice President & Project Manager: Leading the technical teams, establishing project deadlines, allocating budgets, organizing technical reviews, in charge of risk management and supply management.

02.2020 – 09.2020
Systems Engineer: In charge of the overall rover system decomposition, technical requirements definition, systems interface management and definition of the manufacturing & testing plan.

Member — Lausanne
EPFL Rocket Team is a student association developing advanced rockets for international competitions in Europe and in the USA. They are notably working on rocket reusability by thrust vector control and are aiming for space by 2025.

AWARDS
European Rocketry Challenge (Euroc) 2021: 1st place overall

09.2019 – 09.2021
Avionics Software Engineer: In charge of flight sensors data acquisition, FSM and telemetry implementation.