



ALEXANDRE SANMARTÍN GOYANES

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Spanish - 20.12.2004 - Zürich - <https://alexandresanmartin.github.io/alexportfolio/#/>

EDUCATION AND TRAINING

Master of Science in Mechanical Engineering

Swiss Federal Institute of Technology Zürich - ETH Zürich, Switzerland (09/2025 - Current)

- Graduate program with focus on aerospace technologies, product design, and production.
- Combining industrial technologies with academic knowledge
- Eager to pursue an industry-focused career path bridging engineering and applied innovation.
- Active interest in ETH Zurich's startup ecosystem, particularly its innovation hubs and student-led ventures.

Bachelor of Science in Mechanical Engineering (International Degree) GPA 2.0 (German system)

Karlsruhe Institute of Technology, Germany (10/2022 - 08/2025). Specialization: Global Production.

- Graduated with a solid foundation in production processes and interdisciplinary engineering
- Completed the Thesis in advanced manufacturing optimization and improvement implementation
- Achieved Top performing student in the first year, (only student granted the Schroff Scholarship in my Class)

Baccalaureate (GPA: 10/10)

Colegio Manuel Peleteiro, Spain (08/2020 – 05/2022)

- Graduated with Honors
- Achieved the Extraordinary Student Award after being in the Top 10 results in a regional level exam

Professional Conservatory of Music "Colegio Manuel Peleteiro", Spain (08/2009 – 06/2019)

Archbishop McHale College, Ireland (08/2019-03/2020)

WORK EXPERIENCE

Junior Engineer (Part-time)

KA-Raceing e.V. (10/2024 – 04/2025)

- Co-developing the Hydrogen Powered division of one of Europe's top Formula Student teams. Fully responsible for the cooling system in the Formula Student Racecar. Experience in CREO 8.
- In charge of working with the team to seamlessly integrate the necessary systems for the correct functioning of the car in a Team based environment.

Tutor Assistant (Part-time)

Karlsruhe Institute of Technology(10/2024 – 08/2025)

- Taught Advanced Mathematics, Thermodynamics, and Engineering Mechanics 3 and 4.
- Enhanced teaching, communication, and content synthesis skills, deep knowledge in these subjects.
- Selected by academic performance in these subjects.

ACADEMIC ACHIEVEMENTS

- **STEM Spanish Olympiads:** Honorable mention in Chemistry (2022). Participation in Physics and Biology. During Baccalaureate.
- **Extraordinary Baccalaureate (Student) Award**, academic year 2021-2022. During Baccalaureate.
- **Schroff Foundation Scholarship** (2023-24-25): For excellence in Mechanical Engineering at KIT Karlsruhe During my Bachelor studies.
- **SAT Exam:** 1500/1600 (2022) – Top 1% USA/Global. Prepared the exam by myself during my Baccalaureate.
- **University Access Exam** (Spain): 13.45/14. Equivalent to German Abitur or Swiss Matura.

SKILLS

Technical Proficiency:

- Microsoft Excel, Python (data analysis, modeling), JavaScript (object-oriented), CAD (designing, parameterizations, CREO), AI tools, NX.

Personal Skills:

- Motivated and keen on learning new skills and new perspectives in Engineering.
- Team-oriented, critical thinker, reliable, flexible, strong analytical and verbal/written communication.

LANGUAGES

- **Spanish, Galician:** Native, **English:** Bilingual, **German:** B2, **French:** Delf B2

INTERESTS

- **Vehicle and automotive engineering:** new forms of mobility and transport, alternatives to diesel and gasoline and conventional cars. Autonomous mobility, new materials, vehicle innovation.
- **Volunteer:** Alfa-1 España (rare disease-focused NGO).
- **Others:** Debate, chess, sailing, golf, playing the trumpet, traveling, watches and cars.

References: Available on request. <https://alexandresanmartin.github.io/alexportfolio/#/>