



# 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-Racing 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/#/>