ALICIA SERRANO MARTINEZ

Industrial Engineer | Project Engineering & Technical Development

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PROFILE

Industrial Engineer (M.Sc., Tecnun – University of Navarra) with experience in industrial project engineering, site supervision, work planning and multidisciplinary coordination. Currently involved in the design and implementation of industrial installations, coordinating clients, contractors, equipment suppliers and public authorities. Previously led the chassis team of a Formula Student race car, managing schedules, manufacturing activities, external suppliers and technical validation under tight deadlines. Proficient in MS Project and 3D CAD tools, with a practical, hands-on approach to engineering and problem-solving.

KEY SKILLS

- **Project engineering & coordination:** MS Project · Progress tracking · Technical documentation · Site supervision · Supplier coordination
- **CAD, 3D modelling & BIM:** Siemens NX · Creo Parametric · Revit · AutoCAD · Ansys · Altair
- **Programming & software development:** Python · MATLAB · C · C++ · C# · React · ASP.NET Core · Dart / Flutter
- **Data analysis & productivity:** Excel · Power BI · PowerPoint

RELEVANT EXPERIENCE

Project Engineer — SIRKUM Ingenieros Feb. 2026 – present

Multi-discipline engineering consultancy · Donostia–San Sebastián, Spain

- Design, size and cost industrial installations, including electrical, HVAC, fluid and piping, hydraulic and fire protection systems, ensuring compliance with applicable regulations.
- Supervise on-site works against design documentation and technical requirements.
- Coordinate technical matters with clients, architects, installers, equipment manufacturers and regional authorities throughout project development and implementation.

Chassis Team Lead — Tecnun eRacing (Formula Student) 2021 – 2024

Carbon-fibre monocoque race car

- Led the chassis team across two seasons, coordinating design, manufacturing and validation activities alongside academic commitments.
- Tracked progress, technical blockers, deadlines and budget in MS Project; reviewed status in weekly meetings with team-area leads and adjusted plans to maintain project milestones.
- Coordinated external suppliers and manufacturing resources, scheduling material orders, machining operations and composite curing to meet tightly constrained production deadlines.
- Led the transition from vacuum-bag to autoclave curing, combining process implementation with hands-on workshop work.
- Conducted shear and bending tests using LabVIEW-controlled test rigs to assess and validate composite designs.

Software Developer — Lander Simulation & Training Solutions Jun. – Dec. 2025

Master's Thesis

- Developed a web platform using React and ASP.NET Core to manage training-simulator projects, translating company requirements into a working software solution.

R&D and Product Design Intern — SAPA Transmission Summer 2024

- Gained hands-on experience across R&D, product design, planning departments, developing an understanding of the industrial product lifecycle.

SELECTED PROJECT

PitMonkey FS — Independent Software Project 2025 – Present

- Developed and launched a full-stack mobile application for the Formula Student community, using Flutter and Supabase.
- Now available on the Apple App Store and Google Play.

EDUCATION

M.Sc. in Industrial Technologies Engineering Sep. 2024 – Dec. 2025

Tecnun, Universidad de Navarra, San Sebastián — HaaS Talent Scholarship

B.Sc. in Industrial Technologies Engineering Sep. 2020 – May 2024

Tecnun, Universidad de Navarra, San Sebastián — Alumni Excellence Scholarship.

Exchange Semester — Linköping University, Sweden Aug. 2023 – Jan. 2024

LANGUAGES

English: Professional (C1) | French: Intermediate (A2) | Spanish: Native | Basque: Native