ALBERTO GÓMEZ MIRA
Mechanical & Motorsport Engineer

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[↗ VISIT PORTFOLIO WEB]

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ABOUT ME

Motorsport passionate Mechanical Engineer (BSc) currently pursuing an MSc in Motorsport Engineering at Oxford Brookes. Strong background in mechanical design, vehicle dynamics and CFD. Skilled in teamwork, effective time management, and adaptability to dynamic environments. I am looking for the opportunity to fulfil my dream and become part of the world of racing engineering.

Eligible for Graduate Route Visa upon course completion (no sponsorship required).

EDUCATION

MSc in Motorsport Engineering

- September 2025 - September 2026
- Oxford Brookes University (OBU)
- Expected Grade: Distinction

BSc in Mechanical Engineering

- September 2021 - July 2025
- Universitat Politècnica de València (UPV)
- Specialisation: Machine Design
- Final Grade: 7.2/10 (Equivalent to UK 2:1)

MOTORSPORT EXPERIENCE

Oxford Brookes Racing (Formula Student UK) | 2025 - 2026
Team Member on the Fluid Dynamics Department

Used STAR-CCM+ to perform high-fidelity simulations for the design and optimisation of the car's side wings. Conducted detailed sensitivity studies to identify the optimal rear wing height, balancing downforce and drag targets. Presented weekly technical progress and CFD findings during department meetings, ensuring clear communication of design iterations

FSUPV Academy (Formula Student) | 2021 - 2022
Motorsport Engineering Training

During my first year of Mechanical Engineering, I attended the FSUPV Team academy. I showed a particular interest in both vehicle dynamics and aerodynamics, completing a final project focused on the design of a diffuser for the team's car.

Federated Motocross Rider | 2009 - 2017
Competition & Maintenance

Managed both, competition and hands-on mechanical maintenance and set-up of my own bike. This experience has given me a deep understanding of motorsport environment from a young age.

TECHNICAL SKILLS

- Aerodynamics: STAR-CCM+
- Vehicle Dynamics: ADAMS
- Design: SolidWorks, Fusion360
- Simulation: ANSYS, AVL
- Computing: MATLAB

KEY PROJECTS

Detailed breakdowns and additional projects available on my online portfolio.

- LMGT3 Aero Package: Full-scale CFD optimised package for the DrivAer Fastback model.
- 4-DOF Ride Model: BMW Z4 M40i suspension optimisation in ADAMS.
- Twin-Track Model: analysed BMW Z4 M40i weight transfer and yaw rate in ADAMS.