ALEJANDRO GÓMEZ

INDUSTRIAL ENGINEER

CONTACT

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- 📍 San Fernando de Henares, Madrid

SKILLS

- C / Python / Matlab programming
- Ansys Electronics: Maxwell, HFSS, desing automatation
- 3 D software modeling
- Leadership
- Effective Communication
- Altium

LANGUAGES

- English (B2)
- Spanish (Native)

INTERESTS

- Electronics
- Psycology
- History
- Sports

PROFILE

Organised engineer with over 2 years of hands-on experience in magnetic component design, acquired through internships at Renesas Electronics within the CEI team. Worked on projects involving magnetics design both in the kHz and MHz frequency ranges. Graduated in Industrial Engineering and currently completing a Master's degree in Electronics Engineering, both from Universidad Politécnica de Madrid. Passionate about applied physics and maths.

WORK EXPERIENCE

Renesas   07/2024-07/2025
Collaboration Grant Master Thesis

- Design of magnetic components operating in the MHz range at the millimetre scale.
- Investigation of the behaviour of commercial coils across the MHz frequency band.
- Analysis of laminated materials under MHz-frequency excitation.

Renesas   07/2023-07/2024
Collaboration Grant Bachellor Thesis

- Analysis of digitally controlled flyback converters
- Transformer redesign and investigation of parasitic capacitances

Lifeguard   07/2017-08/2018

Event Staff at IFEMA   07/2017-08/2018

Private teacher   2022-Present
Physics and mathematics

EDUCATION

Science Baccalaureate   2017–2019
Colegio Joyfe

Bachelor's Degree in Industrial Technologies Engineering 2019–2024
Universidad Politécnica de Madrid

Master's Degree in Industrial Technologies   2024–2025
Universidad Politécnica de Madrid

Online Course: Magnetics for Power Electronics
Coursera