

Néstor García Camba

Mechanical Engineer | Design & Manufacturing Specialist | Barcelona, Spain

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PROFESSIONAL SUMMARY

Results-driven Mechanical Engineer (MEng) with over 20 years of technical experience across the full product lifecycle—from initial concept and 3D modeling to manufacturing and commissioning. Versatile profile combining high-precision design rigor with pedagogical expertise in technical training and international project management. Fully bilingual in English and Spanish with hands-on international work experience.

PROFESSIONAL EXPERIENCE

GENERALITAT DE CATALUNYA | Vocational Training Professor (Mechanical Manufacturing) | 2024 – Present

- Deliver technical training in machining processes, blueprint reading (GD&T), metrology, and industrial design fundamentals.
- Translate complex industrial requirements into actionable learning modules for future technicians.
- Adapt curriculum to reflect current Industry 4.0 trends and modern manufacturing standards.

I-DOSITECNO PHARMA TECHNOLOGIES | Mechanical Engineer | 2020 – 2024

- Engineered sterile dosing stations for the pharmaceutical industry, customized to client-specific production speeds and product viscosities.
- Served as After-Sales Engineer, resolving critical mechanical failures and implementing retrofits on existing machinery.
- **Key Achievement:** Optimized machine uptime (OEE) by redesigning high-wear components based on field performance data.
- *Tools:* Solid Edge, SolidWorks.

ADELTE (Port & Airport Global Solutions) | Project Engineer | 2020

- Developed Passenger Boarding Bridges (SPBB) for international cruise terminals, ensuring compliance with port-specific structural constraints.
- Executed full 3D assembly modelling and detailed 2D manufacturing drawings, including welding specifications and surface finish callouts.
- *Tools:* Solid Edge.

HARMAN INTERNATIONAL (Edinburgh, UK) | Technical Support Specialist | 2018 – 2019

- Provided multichannel technical support in a 100% English-speaking environment, diagnosing and resolving complex pro-audio equipment issues for the UK market.

CEPAC S.L. | Mechanical Design Consultant (Part-time) | 2017 – 2018

- Designed mechanical upgrades for food packaging machinery to accommodate new product formats.
- **Key Achievement:** Integrated 3D printing (additive manufacturing) for functional parts, reducing prototyping costs and lead times.
- *Tools:* Catia V5

PREMO SAU | Design Drafter - Technical Office | 2015 – 2018

- Led mechanical design for power electronics enclosures and structural supports.
- Managed technical documentation, Bills of Materials (BOM), and CAD component libraries.

MECALUX WAREHOUSE SOLUTIONS | Project Technician | 2007 – 2015

- Managed end-to-end logistics solutions and heavy steel structures for Tier 1 clients (e.g., Nissan, Cepsa).
 - Coordinated with on-site assembly teams to resolve engineering discrepancies during the construction phase.
 - *Tools:* AutoCAD, SolidWorks, SAP.
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EDUCATION

- **Master of Engineering (MEng in Engineering)** | *The Open University (UK)* |
 - *Note: Integrated program encompassing the full scope of Bachelor and Master-level competencies in Mechanical Engineering under international accreditation.*
- **Postgraduate Certificate in Pedagogical and Didactic Training** | IOC
- **Higher National Diploma (HND) in Mechanical Production** | *I.E.S. Llobregat*
- **Vocational Certificate in Machining** | *I.E.S. Llobregat*

TECHNICAL SKILLS

- **Design & Engineering:** 3D Modeling (Expert), GD&T, Product Development, R&D, Technical Documentation.
- **Software:** Solid Edge, SolidWorks, Catia V5, AutoCAD, SAP, Ultimaker Cura.
- **Manufacturing:** CNC Programming, 3D Printing (FDM), Welding Standards, Pharma-grade Materials (AISI 316L).
- **Languages:** **English (Full Professional Proficiency)**, Spanish (Native), Catalan (Native).

VOLUNTEERING

- **Edinburgh Tool Library (2018 – 2019):** Assisted in maintenance and community workshops, promoting tool-sharing and sustainable DIY engineering projects in Scotland.