

NESTOR GARCIA

Industrial Design **Portfolio**

NESTR

dream it / draw it / make it

PRESENTATION LETTER

EDUCATION AND COMPETENCES

WORK EXPERIENCE

SELF-DIRECTED DESIGN PROJECTS

Presentation Letter

Professional Profile & Work Philosophy

I am a Mechanical Engineer with over 20 years of experience in industrial design, machinery development, and manufacturing. Grounded in a strong hands-on orientation and deep shop-floor understanding, I specialize in delivering practical, cost-effective, and manufacturable solutions under tight technical constraints.

My engineering background is complemented by recent experience as a vocational training instructor in mechanical manufacturing. This role has refined my communication, technical leadership, and cross-functional mentoring skills.

Pragmatic and solution-oriented, I thrive in multidisciplinary and international environments where clear analytical thinking, adaptability, and collaborative problem-solving are key.



Education & Skills



Education

- Master of Engineering (MEng) | The Open University, UK

Note: Integrated program equivalent to the European Diplom-Ingenieur, encompassing both Bachelor and Master-level competencies.

Postgraduate Certificate in Pedagogical Training | IOC Barcelona |

Higher National Diploma (HND) – Mechanical Design & Production

INS Llobregat, Barcelona |

(Equivalent to International ISCED Level 5.)

Higher National Certificate (HNC) – Mechanical Design & Production

INS Llobregat, Barcelona |

(Equivalent to International ISCED Level 4.)

Certifications & Professional Training



- Certified SolidWorks Associate (CSWA) | Dassault Systèmes | 2014
- Advanced English (C1/FCE) & Professional Communications | Edinburgh College | 2019
- Industrial Drawing & Technical Sketching | Leith Art School | 2018

Technical Proficiency (Software)



CAD/CAE: SolidWorks (Expert), Solid Edge (Expert), AutoCAD.

Business & Management: SAP (ERP), MS Office Suite.

Manufacturing: Ultimaker Cura (Additive Manufacturing/3D Printing).



My core competencies include:

- Mechanical equipment and machinery design
- 3D concept development and technical sketching
- Manufacturing documentation and bill of materials (BOM)
- Technical project coordination and follow-up
- Design optimization and problem-solving in production environments
- Collaborative work in multidisciplinary teams



Languages

Spanish — Native

Catalan — Native

English — Fluent (professional working proficiency)



Contact in

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GENERALITAT DE CATALUNYA

-Vocational Training Instructor 2024

January 2024 - Present · Barcelona

Lead technical training in Mechanical Manufacturing, managing diverse modules including Pneumatics, CNC Programming, and industrial fabrication processes.

- Instruct students in advanced machining, welding techniques, and the design/troubleshooting of automated systems, focusing on the practical application of theoretical engineering principles.
- Key achievement: Enhanced student technical proficiency by implementing practical projects based on real-world industrial constraints, encompassing mechanical processes and GD&T standards.

Software: CNC ISO Programming, FluidSim, Industrial Fabrication Standards.



Work Experience

SP I-DOSITECNO Pharma Technologies Mechanical Design Engineer



January 2020 - January 2024 · Barcelona

Engineered sterile dosing and filling stations for the pharmaceutical industry, customised to customer requirements such as production speed, format, and product characteristics.

- Served as After-Sales Engineer, resolving mechanical failures and implementing retrofits on existing machinery.
- Key achievement: Improved machine uptime (OEE) by redesigning high-wear components based on field performance data.

Software: Solid Edge.

#packaging #pharma #machinery



ADELTE - Mechanical Design



January 2020 - September 2020 · Barcelona

Designed and developed cruise and aircraft boarding bridges based on client specifications and site constraints. Responsible for full mechanical design, including 3D modeling, detailed 2D manufacturing drawings, and assembly documentation.

- Produced assembly drawings with welding specifications, GD&T, and finishing notes.
- Ensured design compliance with customer requirements and manufacturability standards.

Software: Solid Edge.

#metallic structures #welding #walkways



Work Experience

HARMAN INTERNATIONAL - Customer support



June 2018 – December 2019 · Edinburgh

Worked in Edinburgh in technical support for JBL, AKG and Harman customers, improving professional English while handling high-volume customer contacts. Delivered consistent support through calls, emails, and live chat.

- Managed incoming requests and maintained a professional, solution-focused approach.
- Supported the company target of responding within 24 hours.
- Maintained an NPS (Net Promoter Score) above 80%.

#customersupport



CEPAC FOOD PACKAGING - Design engineer



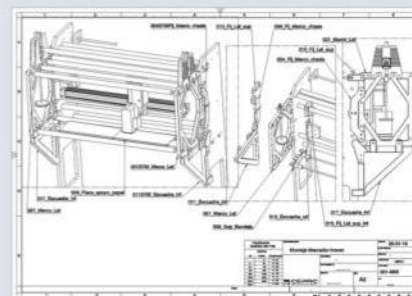
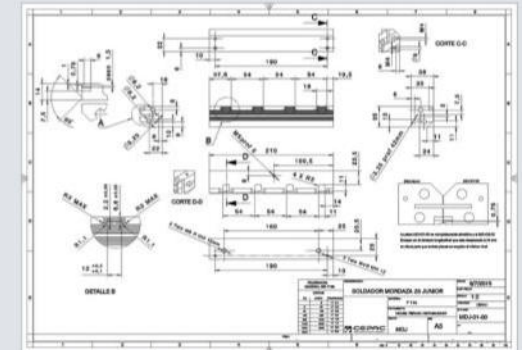
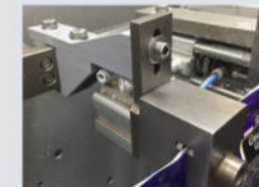
January 2017-April 2018 · Barcelona

At a food packaging company, I led the design and implementation of modifications to existing packaging machinery to accommodate new product formats and requirements. I handled the full design cycle, including fabrication and assembly drawings, installation, and field testing.

- Resolved recurring issues in packaging lines, improving reliability and production efficiency.
- Applied 3D-printed components in optimized materials, reducing modification costs compared to traditional metal parts.

Software: CATIA V5, Ultimaker Cura.

#machinery #3D printing #packaging



Work Experience

PREMO SAU - Technical design Engineer



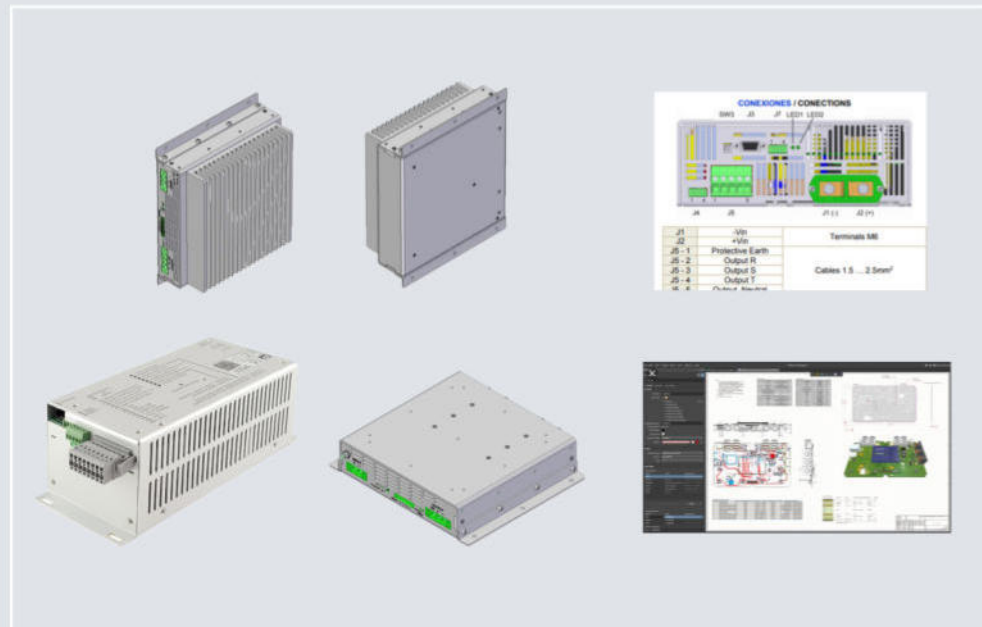
December 2015 - April 2018 · Barcelona

Led mechanical design of assemblies and support structures for custom power supply equipment, producing detailed manufacturing and assembly drawings, technical documentation, and component libraries.

- Simplified existing products, reducing production costs and assembly errors.
- Developed new component libraries, improving design efficiency and standardization.

Software: Solid Edge ST, Draft Sight, Altium Designer

#design #enclosures #technicaloffice



MECALUX - Draftsman\Design engineer

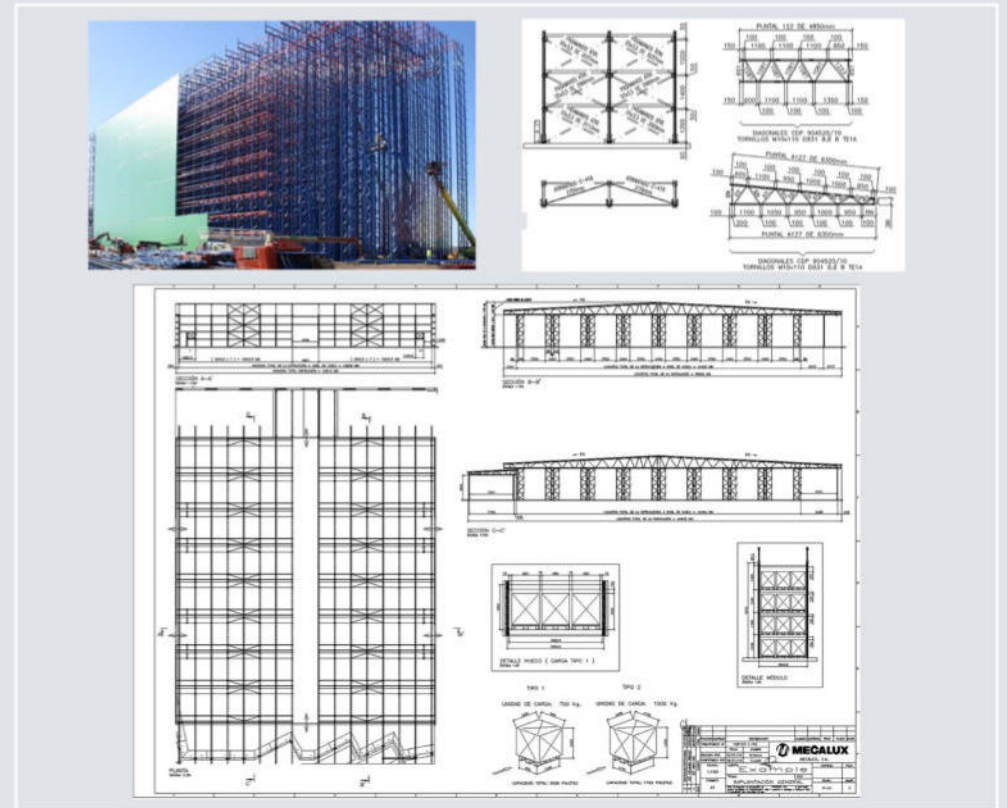


July 2007 - December 2015 · Barcelona

Draftsman and Design Engineer in the Steel Structures Engineering Department (2009–2015) and Technical Sales Office (2007–2009) of a multinational leader in logistics solutions. Responsible for project layouts, custom part design, assembly drawings, and bills of materials across multiple projects.

- Improved the CAD product library, reducing design layout time and increasing consistency.
- Developed Excel tools to minimise errors in material breakdowns and improve project accuracy.
- Delivered 100% of projects and proposals within agreed deadlines.

#structures #warehouse #draftsman



Self-Directed Design

Electric Longboards – Electromechanical Design

Design and build multiple electric longboards with varying power and performance.

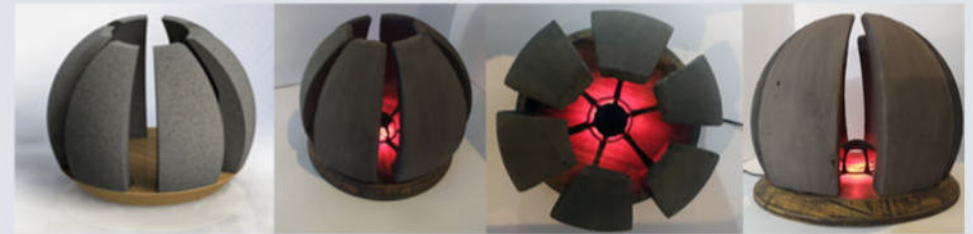
Focus on structural layout, drivetrain integration, battery housing, 3D-printed components, and iterative testing for durability and ride stability.



Concrete & Wool Lamp – Product Design

Design and manufacture a concrete and wool lamp inspired by organic geometry.

Focus on material behavior, tolerances, mold design, and end-to-end fabrication.



Mini Arcade Machine – Enclosure Design

Design and build a compact desktop enclosure for electronics.

Focus on component layout, structural rigidity, and assembly/accessibility.

