



Ernesto Hueso-Monis

Senior Product Design Engineer

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Profile

Senior design engineer with 20+ years' experience leading small, multidisciplinary teams in medical devices, consumer goods, and electronic products. I combine mechanical engineering expertise with industrial design sensibility, excelling at early-stage innovation, complex mechanical problem-solving, and design-for-manufacture. Trusted by clients and teams for mentorship, strategic guidance, and creative breakthrough solutions.

Core Skills

Design & Engineering

- Innovation | original thought applied to challenging design problems
- Advanced mechanical reasoning in complex, constrained problems
- Expert ability to synthesise research data and discover user insights
- CAD: SolidWorks
- Prototyping & 3D printing | Testing & validation
- Extensive manufacturing know-how | Material selection | Plastics | Injection moulding
- Holder of multiple patents

Leadership & Project Management

- Establish design direction and strong product vision
- Project planning, budgets, schedules, resources, tasks & deliverables
- Team mentorship & technical guidance
- Client liaison, presentations, design reviews, workshops & design strategy

Professional Experience

OUTERSPACE DESIGN / Senior Product Design Engineer MELBOURNE, VIC (2013- Current)

Leading projects from concept to production | Delivered multiple successful products to market | Mentored junior engineers in problem-solving and design thinking | CAD Solidworks | Provided technical leadership | Recognized as the "go-to" engineer for

mechanical reasoning and feasibility checks | Expertise in manufacturing processes and design for DFM | Guided clients through design process, budget, and design reviews.

ID&E / Senior Product Design Engineer

SYDNEY, NSW (2007-2013)

Developed medical devices within ISO 13485 environment | Applied expert-level tolerance analysis to retractable syringe project with production of >500M/year | Granted multiple patents on groundbreaking device features.

SCHAMBURG & ALVISSE / Designer

SYDNEY, NSW (2004-2007)

Product designer at award-winning furniture design and manufacturing firm | Product research, concept development, prototyping, detailing, and engineering | Troubleshooting manufacturing challenges.

Other Experience

PENSAGRAPHIC EXHIBITION STANDS / Workshop Manager

CARACAS, VENEZUELA

Managed a multi-skilled workshop (carpentry, painting, acrylic signage, light structural steel) with a crew of 6, building, assembling, and installing tradeshow exhibition stands.

DISEÑOS VERSUS / Owner & Manager

CARACAS, VENEZUELA

Established and operated a woodworking shop (team of 5), building custom-made kitchens, wardrobes, futons, and exhibition stands.

Education

Universidad Simon Bolivar / Bachelor in Mechanical Engineering

CARACAS, VENEZUELA

UNSW / Master of Science in Industrial Design

SYDNEY, NSW

Interests

Sailboats, kitesurfing, and most things ocean and water. Woodworking, 3D printing, and a lifelong love for learning new things.