

Jaime Echevarría

Industrial Design Engineer

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Proactive industrial design engineer. Recently Advanced Manufacturing Master graduated. Creative and agile problem solver, strongly motivated to teamwork. In continuous search of learning. Really interested in automotive design, CAD/CAM systems, 3D Printing, manufacturing systems and processes design, generative design, simulation and analysis and new technology concepts.

Education

2024 **MSc Advanced Manufacturing with Merits**, *University of Portsmouth (UoP)*.

Courses included: CAD/CAM Systems, Manufacturing System Design, Advanced Manufacturing Processes, Advanced Materials, Operations And Quality Management, Supply Chain Management, Individual Project.

2023 **Industrial Design B.Sc. (Hons)**, *University of Portsmouth (UoP)*.

Subjects to be mentioned: Computer Aided Design, Engineering Programming, Technology Concepts, Sustainable Development and Environmental Management, Advanced Modelling, Advanced and Modern Materials, Engineering Practice, Computer Aided Product Analysis and Illustration.

2017 **Secondary education and high school**, *The English Centre*.

The English Centre is a bilingual school at El Puerto de Santa María, Cádiz, awarded as one of the best 50 schools in Spain.

2011 **Primary education**, *The English Centre*.

Languages

Spanish Fluent. Mother tongue.

English Fluent. CEFR Level B2 (2014). Graduated with bachelor's and master's degree at University of Portsmouth.

French Basic skills.

Skills

Experience fields. Industrial design, mechanical design, computer-aided design, technical drawing, 3D printing, software programming, business analysis, materials science, project management, research and development, software version control, general problem solving, CAD/CAM, generative design.

Tools and technologies. Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Ansys SpaceClaim, Arduino IDE, Autodesk AutoCAD, Autodesk AutoCAD Architecture, Blender, Creo Parametric, Dassault Systèmes CATIA, Github, git, KeyShot, Latex, MS Office, SolidWorks, Trimble SketchUp, Visual Basic, Visual Studio.

Projects

- 2024 **Design of the connecting structure between the seat of a fighter jet and its chassis using generative design and topology optimisation** Detailed study of forces exerted on a combat aircraft, implementation and design through generative design for an optimised part (connecting structure between the seat and its chassis) in terms of weight, supported load and material. Respective analysis of the forces exerted on the design. Performed within course *Final Year Project (MSc)* at UoP.
- 2023 **Functional Robotic Arm.** Design, 3D printing, optimisation development and programming of a functional robotic arm. Performed within course *Final Year Project* at UoP.
- 2023 **Bicycle Design and Analysis.** Conceptualising, developing, and analysing a bicycle design that ensures increased usefulness and ergonomics. Performed within course *Advanced Modelling* at UoP.
- 2023 **Reverse Engineering.** Reverse Engineering (Modelling), Model Analysis (Verification), Mould Design, and CNC Machining Simulation of a valve. Performed within course *Advanced Modelling* at UoP.
- 2020 **Electric Vehicle Renting Market Research.** Research and analysis of the market for cost optimization of an EV fleet. Performed within course *Engineering Practice* at UoP.
- 2020 **Jaime's Design Blog.** Implementation of portfolio website for display of personal design projects. It includes several projects carried out within the degree. The site is integrated using Jekyll technology in Python and hosted on Github.
Link: <https://jaimeechevarria.github.io/>
- 2019 **Project Minion.** This project involves the development and design of a Minion 3D model (from Gru movie franchise). It has been developed using 3D modelling software CATIA, from the company *Dassault Systèmes*.
- 2018 **Modelling my Home.** This is a modelling project of my own house using Trimble SketchUp 3D modelling software.

Additional Merits

- 2024-2025 **CSWA Exam Preparation Course**, *Solidworks Webpage*, Online Course.
- 2023-2024 **Member of the Board of directors of the Hispanic Society**, *University of Portsmouth*.
- 2021 **Class Representative for Institution of Engineering Designers (IED)**, *University of Portsmouth*, Selected as student representative for an IED meeting with the objective of accrediting the degree within the domain of engineering.
- 2020-2021 **Member of the UoP Futsal Team**, *University of Portsmouth*.
- 2020 **Mastering IELTS Writing**, *Udemy*, Online Course.
- 2020 **Complete Blender Creator: Learn 3D Modelling for Beginners**, *Udemy*, Online Course.
- 2016-2020 **Public Relations (PR)**, Public Relations for several venues in my home town, El Puerto de Santa Maria.
- 2014-2021 **Driving Licenses**, Motorcycles since 2014, cars since 2018 and motorbikes up to 125 cc since 2021.
- 2006-2016 **Founding member and player of Trasmallo FC football team**, *Cádiz, Spain*.