

Cristian Estévez Díaz

Mechanical Engineer | MSc in Mechanical Engineering

Santa Cruz de Tenerife, Spain contacto@cristianestevez.com
linkedin.com/in/cristianestevez cristianestevez.com



EDUCATION

Education

MSc in Mechanical Engineering

Universitat Politècnica de València (UPV)

2015 - 2017 · GPA: 8.5/10

Advanced computational techniques: component simulation, multibody dynamics, materials and manufacturing processes. Noise, vibration and instrumentation analysis.

BSc in Mechanical Engineering

University of La Laguna

2011 - 2015 · GPA: 8.19/10

Machine design, energy systems, thermodynamics, industrial structures and project management.

CREDENTIALS

Certifications

B1 English Level (Intermediate)

Escuela Oficial de Idiomas

Jul. 2018 · ID: A93B22017P

Non-Linear FEA

NAFEMS

Sept. 2024 · ID: 0108289

SKILLS

Competencies

ENGINEERING

Mechanical Design FEM / FEA

Structural Analysis CAD

Materials Manufacturing

MANAGEMENT

Project Management I+D Scrum

Teamwork

TOOLS

Software

CAD / SIMULACIÓN

PTC Creo Parametric SolidWorks

AutoCAD ANSYS APDL CATIA

CÁLCULO

MATLAB Python Excel / VBA

GESTIÓN

MS Project Notion

RESEARCH

Publication

Cryogenic components (COTS) for HARMONI

Gigante, Hernández, Estévez et al. · 2016

Proc. SPIE 9908 · doi:10.1117/12.2232586

LANGUAGES

Languages

Spanish Native

English B1

PROFILE

About Me

Mechanical Engineer specialised in R&D for high-precision scientific instrumentation. At the GTC engineering team I design and integrate mechanisms for cutting-edge instruments, with a focus on CAE simulation, CAD design and the integration of AI into engineering workflows. An MSc in Industrial Engineering is the natural next step to broaden this technical foundation.

CAREER

Professional Experience



Development Engineer

JUL 2020 - PRESENT

Gran Telescopio Canarias, S.A. · La Laguna, Tenerife

- Development of mechanical systems for scientific instruments at the world's largest optical-infrared telescope, covering the full cycle from concept to integration and verification.
- Design of mechanisms, structures and mounts for high-precision instrumentation. FEA simulation and technical calculation using ANSYS APDL, PTC Creo Parametric, MATLAB and Excel.



CAD/CAE Training Instructor

JAN 2023 - PRESENT

FORMACAD · Remote

- Specialist technical training in CAD and simulation: PTC Creo Parametric (advanced level), SolidWorks, Autodesk Fusion 360 and SolidWorks Flow Simulation (CFD).
- Course content adapted to each student's level and professional background.



R&D Mechanical Engineer

OCT 2018 - JAN 2020

Altran Engineering Solutions · Barcelona, Spain

- Development of new technologies focused on automotive and future mobility.
- Design, integration and verification of structures and mechanisms underpinning technology innovation projects.

PROJECTS

Featured Projects



Rotating Pupil Mechanism for HARMONI (Bachelor's Thesis)

2014-2015 · IAC

Institute of Astrophysics of the Canary Islands (IAC) · ULL

- Design and prototyping of a cryogenic rotating pupil mechanism for the HARMONI spectrograph on the E-ELT. Novel cryogenic technology for the IAC.



MORE INFO AT MY WEBSITE

cristianestevez.com



Pre-operative Assessment of Prosthetic Implant Fixation (Master's Thesis)

2016-2017 · UPV

Dept. of Mechanical Engineering and Materials · UPV

- Patient-specific FEM simulations using cgFEM (FEAVox/MATLAB) from medical imaging to predict implant fixation. Natural frequency and vibration mode analysis of the bone-implant assembly.