

Ignacio Hernandez Arroyo

Aerospace Engineer - Product Development Consultant

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WORKING EXPERIENCE

Advertising Associate

Consultoria.io

Oct. 2019 - Present

Remote work

Leveraging my analytical and problem solving skills to create optimal Return on Investment with our multi-industry clientele, for whom we perform strategic consulting for rapid and sustainable scale-up.

Engineer

Skolkovo Institute of Science and Technology

Aug. 2018 - Present

Moscow, Russian Federation

Performing modeling in areas including shock dissipation, thermal control and aerodynamics, as well as Systems Engineering duties for early design of a novel airship concept.

Product Development Consultant

Inspiralia

Jun. 2018 - Present

Remote work

Carrying out feasibility studies on technological, commercial and financial viability of startups and SMEs seeking to deploy innovative technologies accessing the EU markets.

Research & Development Intern

Sputnix

Jun. 2017 - Aug. 2017

Moscow, Russian Federation

Developed cost models for micro-satellite programs, comparing serial manufacture and launch of traditional and modular designs.

Satellite Program Intern

University of Bristol

Jun. 2015 - Sep. 2015

Bristol, United Kingdom

Creation of early platform design and full documentation for the Announcement of Opportunity, as well as presentation to academic and industrial prospective partners.

EDUCATION

M.S. in Space Engineering Systems

Skolkovo Institute of Science and Technology

Sep. 2016 - Jun. 2018

Thesis title: Integration of Set-Based Design within Product Lifecycle Management Systems: an Aerospace Case Study

M.Eng. in Aeronautical Engineering

University of Bristol

Sep. 2012 - Jun. 2016

Thesis title: Analytical Model for Leading-Edge Vortex Lift on Rotating Samara Seeds: Development and Validation.

References available upon request.

AWARDS



Raoul Hafner Prize

For outstanding performance at University of Bristol research.

RELEVANT SOFT SKILLS

Leadership

Professional writing

Analytical thinking

Communication

Time management

RELEVANT IT SKILLS

CAD

C

MATLAB

Python

Lean Development

PLM Systems

ECSS Standards

LANGUAGES

English (CAE C1, 2012)



Spanish (Native)



French (DALF C1, 2013)



Russian (A2 level)



Portuguese (B1 level)



PUBLICATIONS

I. Hernandez Arroyo, D. Rezgui, R. Theunissen, *Analytical Model for Leading-Edge Vortex Lift on Rotating Samara Seeds: Development and Validation*, in RAeS Applied Aerodynamics Conference, 2016.

I. Hernandez Arroyo, C. Fortin, *Technological and Complexity Risk Analysis For Set Based Design Evaluation*, in 4th IEEE International Symposium on Systems Engineering, 2018.

I. Hernandez Arroyo, S. K. Salas Cordero, C. Fortin, *Systems Engineering Methodology for High-Altitude Balloon Missions*, in 4th IEEE International Symposium on Systems Engineering, 2018.