

JONAS FUENTES LEON



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WORK EXPERIENCE

SPINDOX | ANALYSIS & PROJECT SPECIALIST

Jun 2021 – Present | Barcelona, Spain (Remote)

- Gather and analyse client business requirements from different sectors: logistics and automotive.
- Definition and formalization of business requirements: BPMN diagrams, documentation.
- Support the Scrum Master in projects following Agile methodologies: backlog refinement, UAT.
- Evaluate the technical impact of proposed solutions in coordination with the Tech. Lead and Dev. Team.
- Support the Project Manager's functions: time and budget planning, meeting preparation.

GESTAMP | R&D ENGINEER

Feb 2019 – Jun 2021 | Barcelona, Spain

- Design and validation of innovative solutions for electric vehicles.
- Technical review of customer Request for Quotations.
- Development of internal R&D projects: Technical aspects and project planning.
- International electric vehicle normative review and market benchmarking.

JAGUAR LAND ROVER | SIMULATION ENGINEER

Jun 2017 – Feb 2019 | Gaydon, United Kingdom

- Development of the front structure of JLR vehicles to meet legal crash requirements.
- Full vehicle crash simulation data post-processing and analysis.
- Impact evaluation of the proposed structural solutions in other vehicle attributes.
- Summarising and presenting results to Senior Management level.

HENDRICKSON UK | MECHANICAL DESIGN AND TEST ENGINEER

Oct 2015 – Jun 2017 | Wellingborough, United Kingdom

- Design, from initial concept to implementation, of bespoke suspension systems for main international OEMs: Daimler, MAN, Scania, DAF, Ford...
- Technical Drawings and project documentation.
- Instrumentation and test data post-processing.
- Customer warranty claims investigation.

BOSCH | INTERNSHIP | DEPARTMENT OF TECHNICAL FUNCTIONS

Jul 2014 – Oct 2014 | Madrid, Spain

- Technical reports and process documentation.

EDUCATION

PHD | UNIVERSITAT OBERTA DE CATALUNYA | NETWORK AND INFORMATION TECHNOLOGIES

Jun 2021 – Nov 2024 | Online, Spain

PhD Thesis: “Simulation as a key element for the development of intelligent algorithms in complex logistic applications”

MSC | CRANFIELD UNIVERSITY | ADVANCED LIGHTWEIGHT STRUCTURES AND IMPACT

Oct 2014 – Oct 2015 | Cranfield, UK (Double Degree Erasmus Programme)

MSc Thesis: “Preliminary studies and design of a crash energy absorbing device based on solid-state polymer extrusion”

MSC | TECHNICAL UNIVERSITY OF MADRID | INDUSTRIAL ENGINEERING

Sep 2013 – Sep 2014 | Madrid, Spain

BENG | TECHNICAL UNIVERSITY OF MADRID | MECHANICAL ENGINEERING

Sep 2009 – Sep 2013 | Madrid, Spain

LANGUAGES

SPANISH: Native (C2)

ENGLISH: Working Proficiency (C1)

ITALIAN: Working Proficiency (C1)

CATALAN • FRENCH: Elementary Proficiency (A2)

IT SKILLS

PROGRAMMING: Python • SQL • Matlab/Octave • VBA

SOFTWARE: Jira • Knime • Power BI • Windows Office Suite

OS: Windows • Linux

SIMULATION: ANSYS • LS-Dyna • FlexSim • Simulink

DESIGN: Catia V5 • AutoCAD • LATEX

PUBLICATIONS

- Leon, J. F. et al. (2024). *Simulation of Heuristics for Automated Guided Vehicle Task Sequencing with Resource Sharing and Dynamic Queues*. Mathematics, 12(2), 271. [Link](#).
- Leon, J. F. et al. (2023). *A Hybrid Simulation and Reinforcement Learning Algorithm for Enhancing Efficiency in Warehouse Operations*. Algorithms, 16(9), 408. [Link](#).
- Leon, J. F. et al. (2023). *A Discrete-Event Simheuristic for Solving a Realistic Storage Location Assignment Problem*. Mathematics, 11(7), 1577. [Link](#).
- Leon, J. F. et al. (2023). *A Demand Modelling Pipeline for an Agent-Based Traffic Simulation of the City of Barcelona*. In 2023 Winter Simulation Conference (pp. 1771-1782). IEEE. [Link](#).
- Leon, J. F. et al. (2022). *A Tutorial on Combining Flexsim with Python for Developing Discrete-Event Simheuristics*. In 2022 Winter Simulation Conference (pp. 1386-1400). IEEE. [Link](#).