

# CARR RENEWABLES, LLC

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## Curriculum Vitae for José I. Llorente

### Education and Licensing

- PhD in Mechanical Engineering, University of the Basque Country, Spain, 1988
- Master of Science in Mechanical Engineering, Spain, 1985
- Registered Professional Engineer in Spain, 1986 to present

### Specialized Professional Competencies

- Computational and experimental mechanics, mechanical vibrations and modal analysis.
- Manufacturing processes, machining, forming, and casting - in close collaboration with the industry through various joint research projects.
- Specification, design, test and evaluation of wind energy systems.
- Maintenance of wind energy systems.
- Product development management.
- Root Cause Analysis (RCA) methodologies.

### Professional Experience and Qualifications

- Jan 2020 to date: Chairman of the Advisory Board, Carr Renewables Europe SL, Paseo Landabbarri 91, 48940 Leioa Bizkaia, Spain.
- Aug 2019 to date: Chairman of the Advisory Board, Carr Renewables LLC, 12500 Castlebridge Drive, Houston Texas 77065.
- Sept 1986 to date: Associated Professor of Mechanical Engineering at the Department of Mechanical Engineering of the Basque Country University.
  
- Jan 1999 to Aug 2018: Siemens Gamesa Renewable Energy (formerly Gamesa Eólica).
  - May 2017 to Aug 2018 (post Siemens merger): Responsible for worldwide Product Integrity (PI) and Warranty Wamagement (WM) for ex Gamesa fleet.
  - May 2010 to April 2017 (prior to Siemens merger): Responsible for worldwide risk and opportunities analysis and its impact on P&L.
  - May 2010 to April 2017 (prior to Siemens merger): Director of new business and special projects in Gamesa Corporate - service division. Responsible for addressing major quality concerns worldwide; from the technical solution to final commercial settlement. Responsible for expanding global aftersales markets.
  - Jan 2008 to April 2010: CBO (Chief Business Officer) - Gamesa Wind US.
  - Jan 1999 to Dec 2007: CTO of Gamesa Eólica. Responsible for all product development and technology acquisition projects

### Publications and Instructing Achievements

- Author of number of papers for international congresses
- Author of articles for various Scientific Journals (peer reviewed)
- Author of 43 families of patents for wind turbines applications
- Member of ASME and ASM
- Corresponding Member of CIPR from 1997 to 2009