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JOSE ANTONIO MULET ALBEROLA



Power Electronics (Spain).



Education:

Master's Degree in Mechatronics Engineering (2015-2017)

- Universidad Politécnica de Valencia (UPV).
- Internship: **Istobal, S.A.**, R&D department (September 2016-March 2017).
- Final project: "**Dynamic study and Design of a robotic arm for assistance of disabled people**":
 - Trajectory algorithm development (MATLAB).
 - Kinematic and Dynamic control algorithm development (MATLAB) and system simulation (MATLAB).
 - Prototype mechanical design (CAD/MBD / NX/SolidWorks) and mechanical analysis (CAE / NX/SolidWorks), assembly.

Mechanical Engineering Degree (2010-2015)

Machinery Design branch.

- Jaume I University (Castellón): Erasmus at Seinäjoki University of Applied Sciences, Finland (2013).
- Internship: **CCC Sagunto de Gas Natural SDG, S.A.** (Naturgy Energy, S.A.), Maintenance department (May-July 2015).
- Final project: "Predictive Maintenance study based on Vibrations at Combined Cycle Power Plant at Sagunto, property of Gas Natural SDG, S.A.":
 - Vibration analysis.
 - Industrial maintenance: Predictive maintenance plan implementation.

Automotive Technician (2007-2009)

- I.E.S. Botànic Cavanilles (Vall d'Uixó, Castellón).
- Internship: **Fiat Center Italia, S.P.A.**, official Fiat, Lancia and Alfa Romeo workshop in Rimini, Italia (April-June 2009). GV Grant.

Electro-mechanical Technician in Automotive sector (2004-2006)

- I.E.S. Jorge Juan (Puerto de Sagunto, Valencia).

Work Experience:



Mechatronic Engineer, MSCA ITN fellow researcher (October 2019-Present)

- **National Research Council (CNR)**, Systems & Intelligent Industrial Technology for Advance Manufacturing (STIIMA), Micro Enabled Devices and Systems department.
- **DimanD project (H2020)**: "Precision manipulation and assembly of electro-optical components" under MSCA.



Mechatronic Technician, Researcher (November 2017-September 2019)

- **ITENE Research Center** (Electronics, Robotics and 4.0 Industry group).
- Official reports writin & technical consulting support (IVACE, CDTI, SME instrument FI/F2, H2020).
- Project planning and management (economical costs and human assignment).
- Projects:
 - **PlastiCircle (H2020 project, ongoing): Smart container module.** Module design (CAD / NX) and programming, prototype assembly, errors review and continuous development.
 - **LeeBed (H2020 project, ongoing): Printed electronics manufacturing modules and printed sensors.** Sensors specifications and technical support. Pilot line modules specifications and requirements definition, mechanical and automation architecture design.
 - **BioSust (regional project, 2018-2019): Grinding machines and bio composter plant.** Requirements and mechanical design of the prototypes (CAD/CAE / NX), electrical and automation design. Bio composter electrical design and plant assembly.
 - **Vitrans (regional project, 2017-2018): Transport data collection equipment and simulation machines.** Mechanical design of a vibration machine (CAD/CAE/MBD / NX), hydraulic installation, electrical and automation design. Mechanical, electrical and automation design of a clamping machine, sensors adjustment. Data collection device design (CAD/CAE / NX) and programming (CodeComposer), prototype assembly.
 - **AllSense (regional project, 2018): Monitorization modules and data collection equipment.** Data collection device design (CAD/CAE / NX), prototype assembly.
 - **Sneakpack (regional project, 2017): Electronic module for PLV control.** Module design (CAD / NX) and microcontroller programming (CodeComposer).



Mechanical Design Technician (April-October 2017)

- **Istobal, S.A.** (R&D department, wash rollovers group).
 - Mechanical design of rollover modifications and development of all rollovers range (CAD / NX).
 - Mechanical design of new optionals for the new M32 rollover (CAD / NX).
 - Mechanical design for **UL certification** in FLEX5 rollover (CAD / NX), coordination with the product (USA) department.

