

## Javier González-Fernández, Industrial Engineer

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Centro de Tecnología Médica  
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Highly experienced Embedded Systems Designer with thorough knowledge of C programming. Able to devise and implement embedded electronics from design to final prototype. Capacity to work in a demanding environment, whilst meeting project deadlines and budgets.

### Areas of Expertise

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- Embedded Electronics
- Embedded Programming
- Printed Circuit Board Design and Fabrication
- Digital Signal Processing
- Ultrasound Medical Imaging. Elastography
- Mechanical FEM Analysis

### Education

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PhD Candidate	Centro de Tecnología Médica University of Las Palmas de Gran Canaria.	2007
MSc Industrial Engineering	University of Las Palmas de G.C, Spain	2001

### Languages

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- Native Spanish Speaker
- Proficiency in English.
- Good conversational Portuguese.

### Recent Publications

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1. **González-Fernández, J.**, Gómez-Déniz, L., Ruiz-Alzola, J., “Low-Cost Open-Source Electrocardiograph Front-End For In-Vivo Tissue Motion Synchronization”, in *Proc. of Fifth International Conference on the Ultrasonic Measurement and Imaging of Tissue Elasticity*, page 35, October 2006
2. Sosa Cabrera, D., **González-Fernández, J.**, Castaño-Moraga, C.A., Gómez-Déniz, L., Alvarez-Leon, L., Ruiz-Alzola, J., “A Multiscale Variational Optical Flow Method To Estimate Discontinuous Motion Fields For Ultrasound Elastography”, in *Proc. of Fifth International Conference on the Ultrasonic Measurement and Imaging of Tissue Elasticity*, page 31, October 2006
3. **J. González-Fernández**, L. Gómez-Déniz, J. Ruiz-Alzola. Desarrollo de un Sincronizador Cardíaco para su Empleo en el Diagnóstico Médico mediante Elastografía por Ultrasonido. XXIII Congreso Anual de la Sociedad Española de Ingeniería Biomédica. Pp. 3555-358 (2005)
4. J.M. Canino, J. González-Fernández, L.Gómez. “A Fast Numerical Optimisation Algorithm for Aircraft Continuous Descent Approach”, in Proc. Of ERCOFTAC 2006, April 2006.