Ph.D. Programs in Microelectronics



The Instituto de Microelectrónica de Sevilla, IMSE, CNM (CSIC, Universidad de Sevilla), in collaboration with and co-funded by the industry leader in image sensors **Teledyne AnaFocus**, offer 4 Ph.D. grants to carry out the following doctoral theses in architectures and design of chips for high performance image sensors.

4 PhD Theses	Offer
 Thesis 1: Low Noise & High Dynamic Range Image Sensors with Adaptive Global Adjustment Thesis 2: Image Sensors based on SPADs for 2D/3D Image Capture Thesis 3: Vision Sensor Architectures with Embedded AI Algorithms for Adaptive Feature Extraction Thesis 4: Architectures and Circuits for High-Speed Analog-to-Digital and Time-to-Analog Converters for Image Sensors 	Study center: Institute of Microelectronics of Seville (US-CSIC) with periodic stays at Teledyne AnaFocus. The stays at Teledyne AnaFocus will be within the CMOS image sensor design team, a multidisciplinary team with more than 20 years' experience in the design of microelectronics and image sensors.Location: SevilleStart date: October 2024Funding: €2.300, monthly gross salary
Pre-requisites	Contact:
 Degrees: Master's or Bachelor's Degree in Physics; or in Electronic Engineering; or in Electronic and Automatic Engineering; or in Electronic Engineering, Robotics and Mechatronics; or in Industrial Electronic Engineering; or in Telecommunications Engineering. In the case of Bachelor Degrees, it will be necessary to have completed or be carrying out Master's studies related to the discipline of Electronics. Skills: Knowledge in circuit design, computer-aided design tools (e.g., Cadence, Synopsis, Mentor), and technical computing languages (e.g., MATLAB). 	If you are interested, please submit your application to the Director of the theses: Prof. Ángel Rodríguez Vázquez. Please visit his CV at: <u>https://tinyurl.com/pxn6w5b6</u> Emails: Prof. Ángel Rodríguez Vázquez: <u>arodri-vazquez@us.es</u> Prof. Juan. A. Leñero-Bardallo: <u>ilenero@us.es</u>