



UNIVERSITÀ DI PAVIA  
Department of Electrical,  
Computer and Biomedical  
Engineering

National PhD School in Micro and  
Nano Electronics

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Magenta Seminar Room  
Dept. ECBE, D Floor

*Industrial Topics in Microelectronics and Photonics - Seminars*

## Semiconductor Design Process From Concept to Manufacturing

**Abstract:** The development and industrialization of semiconductor products (microchips) requires a series of steps to get from 'the idea' to high volume production. These steps form a process. In this seminar we walk through each process step and see a variety of engineering activities that are part of the semiconductor world. We will also see that the ultimate goal of such a process can be summarized in two key financial & quality metrics.

**Speaker: Michael Roche**



**Michael Roche** has over 25 years of experience in the semiconductor industry. He graduated from University College Galway (Ireland) with a Bachelors Degrees in Electronic Engineering in 1996. Michael started out his career as an Analog Circuit Design Engineer in Ireland, the US and Italy. He then transitioned in 2004 to Technical Lead & Project Management roles in various employers in the Pavia-Milan region of Italy. Currently Michael is a Senior Project Manager with Allegro Microsystems, based in the Milan Design Centre, and works in the High Voltage Isolated Gate Drivers group.