



Philippe Andreucci is working as research engineer and nanosystems project manager at CEA/LETI – MINATEC in Grenoble, France, involving about 1200 researchers in micro and nanotechnology. He is an experienced NEMS / microelectronics researcher with significant background in large-scale engineering of electronic and microelectromechanical systems.

He obtained his diploma of Physics Engineer at Supélec (Ecole Supérieure d'Electricité) and a MBA from ESSEC (Ecole Supérieure des Sciences Economiques et Commerciales), both located in Paris, France. Prior to his current position, Philippe Andreucci worked as Product engineer then Marketing Manager in two different companies dedicated to MEMS development.

At CEA/LETI – MINATEC, Philippe Andreucci is also currently co-leading the Alliance for Nanosystems VLSI (www.nanovlsi.com) with Pr. Michael Roukes from California Institute of Technology/Kavli Nanoscience Institute (Caltech/KNI, USA) which aimed to transition from the era of "nanocraft" to very-large-scale integration (VLSI) of NEMS (Nano Electro Mechanical Systems). The goal of this strong collaboration is to transform nanotechnology-based prototypes into robust, complex sensing systems. The initial focus is on large-scale integration of bio/chemical sensors. This involves metamorphosing nanoscale methodologies that have driven innovative research into well-validated microelectronic foundry processes at the wafer scale. Philippe Andreucci is heading this effort from LETI-MINATEC side, involving more than 15 researchers in the areas of chemical functionalization, NEMS device physics, sensor array architectures, integrated microfluidics, multiplexed multichannel electronic readout systems, and informatics-based signature detection algorithms.

He published in various international reviews and conferences for his works on modelling and fabrication of Nano Electro Mechanical Systems (NEMS) and holds several patents on this topic. His current scientific interests are linked to the submicron phenomena for nanosystems simulation and detection principles at nanoscale with a unifying theme centered upon application development, and integration of complex nanostructures.