



Marcantonio Catelani

Profile

Marcantonio Catelani received the M.S. degree in Electronic Engineering in 1984 from the University of Firenze (Italy).

Actually, he is Full Professor of Reliability and Quality control at the School of Engineering in Firenze – Department of Information Engineering.

His current research interests are in different fields. In the RAMS context (Reliability, Availability, Maintainability and Safety), the aim of the research concerns both the analysis and evaluation of RAMS requirements for systems and equipment used for industrial applications such as transportation, automotive, biomedical, electronics; in this area his interest regards also in development of new models for SIL (Safety Integrity Level) and Risk evaluation.

Strictly correlated with RAMS are the fields of interest of both the Fault diagnosis and Reliability testing for components and equipment; in this last, the activity concerns the development of test profiles and new degradation models able to estimate the life cycle of electronic components.

A more recent field of interest concerns also the analysis of performances of new soldering material (lead free) in electronic field. To this aim, different types of conductive glues are experimented in laboratory, also from the reliability point of view, with the aim to modify or substitute the traditional soldering process and minimize the environmental impact.