

Contribution ID: 8

Type: **not specified**

# Magnetic Sensor Qualification in an Industrial Environment

*Thursday 9 February 2023 11:35 (15 minutes)*

The need for accurate positioning sensors with small dimensions has grown exponentially in recent years, leading to the development of various technologies for this purpose. The primary focus of these technologies is to provide reliable outputs with high resolution, while also minimizing the cost of fabrication. An example of such a technology is Anisotropic Magnetoresistive (AMR) Sensors, which can measure magnetic field variations with incredible accuracy and have a wide range of applications, while still being of easy production. The objective of this work is to optimize the use of AMR sensors in an industrial setting for positioning purposes. This will be achieved by studying various process factors, including the materials used and the deposition conditions during microfabrication, with the goal of increasing the production yield as well as the quality of the devices.

**Author:** CORREIA FERREIRA CONSTANTINO, Rita Filipa

**Presenter:** CORREIA FERREIRA CONSTANTINO, Rita Filipa