

# Student Project

*Chair for Biomedical Microtechnology – Prof. Dr.-Ing Thomas Stieglitz*

**Topic: Crosstalk Study in Polyimide-Based Track Structures**

## Requirements

- Master student in Microsystems or Embedded Systems Engineering
- Language: English and/or German
- Courses in electrical engineering

## Description

The task involves the measurement of crosstalk between neighbouring conductive tracks in polyimide-based samples with micrometer-scale pitches (2-6  $\mu\text{m}$ ) using an impedance analyser. The setup of the experiment involves different measurement setups:

- dry environment
- wet environment
- drug-coated samples

The measurement setup consists of a PCB adapter where the PI samples can be inserted in ZIF connectors and the data acquisition follows through a frequency sweep in the range of 1-300 Hz.



After data acquisition you are expected to perform a statistical analysis to compare the results for the different setups.

## Contact

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