

# TECHNISCHE UNIVERSITÄT DRESDEN

## FAKULTÄT ELEKTROTECHNIK UND INFORMATIONSTECHNIK

### 3D printing task

Topic: „Design and Manufacturing of a Silicone Molding Form“

#### Goal:

The goal is to design a silicone molding form that allows sensors to be fully encapsulated. The master form will be created using 3D printing, with the design ensuring that the sensor is securely and precisely enclosed. Once the master form is printed, it will be filled with silicone to create a final product, with the sensor completely surrounded by silicone. This process provides protection for the sensor against external influences and ensures secure integration into various applications.



The following sub tasks will be due:

- Defining the functionality and physical requirements (geometry)
- Creating a 3D model using CAD software (Autodesk Inventor, Blender, SolidWorks, ...)
- Selecting appropriate 3D printing methods and materials
- Print the master model (The model should be as smooth and precise as possible)
- Filling the Mold with Silicone

Responsible

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