

TECHNISCHE UNIVERSITÄT DRESDEN

FAKULTÄT ELEKTROTECHNIK UND INFORMATIONSTECHNIK

3D printing task

Topic: „Gobo-Projector“

Goal:

The goal is to design a so-called Gobo-Projector that can transform the beam of a simple light source (LED or Laser) into a complex pattern. Such structures can be printed with different resolutions and sizes using transparent 3D-Printing methods. In addition, a simple light source and package should be designed.



The following sub tasks will be due:

- Research on Gobo-Projectors and their design
- Defining the functionality and physical requirements of gobo-pattern and package
- Creating a 3D model using CAD software (Autodesk Inventor, Blender, SolidWorks, ...)
- Selecting appropriate 3D printing methods and materials
- Printing and testing different gobo-patterns

Responsible

Professor: Prof. Dr.-Ing. Dr. h.c. mult. Karlheinz Bock

Supervisor: Dr.-Ing Krzysztof Nieweglowski
Dipl.-Ing. David Weyers

Contact: nieweglowski@avt.et.tu-dresden.de
+49 351 463-35291