Master-/ Bachelorthesis
Aerosoljet Printing of In2O3 FET-Semiconductor

Motivation
Aerosoljet printing of field-effect transistor semi-conductor represents a cutting-edge technology that holds great potential for revolutionizing the semiconductor industry. This advanced printing technique enables the precise deposition of semiconductor materials with high flexibility, offering a cost-effective alternative to conventional fabrication methods.

Tasks
Your main task will be to find a connection between printing parameters and semiconductor thickness and width. Furthermore, the thermal curing process also needs to be investigated. As a master thesis, FET characterization will be done additionally.

Prerequisites
- Previous work required for aerosol jet! (at least 2 months)
- Independent and reliable experimental work
- Open communication and teamwork
- Students of mechanical engineering, mechatronics, electrical engineering, material science or comparable topic.

Research Areas
Electrical engineering, printing technology, semiconductor technology

Type of Work
Experimental

Location
LTI
(KIT, Campus South)

Starting Date
As soon as possible

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