

Carsten

Putz

Research Associate



EITHER ... OR ?

| | |
|---------------------|--|
| Film oder series? | Series |
| Coffee or tea? | Coffee |
| Sunshine or snow? | Snowshine |
| Chocolate or chips? | Chocolate |
| City or village? | Village |
| Elevator or stairs? | "Always take the stairs!!1!!!1!" - Gustavo |

AT THE CHAIR ...

... I'm responsible for

Project management in the DPT group

Thematically I deal with

Design automation

The goal of my research is to,

To explore new design methods for the design of copper coils in electric motors

For this I particularly work with

Design scripting software

This is the advantage of my research:

Automation in the development process of electric machines for the automotive sector

However, it is also possible to transfer the results to these industries:

Electric mobility in general; aviation (electric air taxis); racing (Formula E, DTM E, etc.)

This is the impact of my research on the future:

Shortening development cycles of electric machines, increasing power density, and using materials more sustainably.

MY MOTIVATION

That's what I studied:

Relatively new manufacturing technology, innovation possibilities in all industries, ingenuity

For this reason, I decided to go for Additive Manufacturing:

Relatively new manufacturing technology, innovation possibilities in all industries, ingenuity

I am especially excited about these AM-possibilities:

Re-thinking products from the ground up

I am glad about these opportunities at the DAP Chair:

Exploring the field of e-mobility for additive manufacturing; shaping structures

In my dissertation I will deal with this topic:

Design automation of hairpin copper windings, utilizing the potentials of additive manufacturing.