

Bachelor-/Master-Thesis „Modular Mechanical Design of Electric Machines for eMobility“

With us you can realize the electro mobility and electrification in the automotive and truck sectors and design the technology of the future. Our goal is to support the growing mobility industry with innovative high power mechatronic technologies, from concept to mass production.

CPM (Compact Power Motion GmbH), is part of the **SONCEBOZ-GROUPE (CH)** (www.sonceboz.com) and consists of a small innovative team of international specialists.

The scope of our activities ranges from the development of innovative concepts through initial preliminary studies to products, ready to be manufactured. The development is mainly focused on the electrical power train and high-speed electric motors.

Goal:

- Develop the modular/scalable approach to the design (stator, rotor, winding) of our permanent magnet synchronous machines to deal with various power/speed specifications.



Tasks:

- Review of the existing solutions on the market (stator, rotor, winding)
- Definition of the modular/scalable concept
- CAD design of the modular/scalable parts (stator, rotor, winding, housing)
- Contact suppliers for feasibility, cost and prototyping

