

Designing the 1 km Hyperloop Test Track



Motivation

In 2013, Elon Musk introduced the Hyperloop vision in a white paper. Subsequently, SpaceX organized Hyperloop competitions, of which all four were won by the student team of the Technical University of Munich. In 2019, the TUM Hyperloop Research Program was formed with the goal of developing and building a full-scale, 24-meter-long concrete vacuum tube segment and a Hyperloop pod capable for two passengers, while magnetically levitating and propelling in a low-pressure environment. After the successful presentation in 2023 a 1 km test track is currently in planning and preparation.

Problem Definition

As part of the TUM Hyperloop team, you will be given a task within the current project. After an elaborated onboarding you will be learning hands-on skills at test stands or simulations to gain important insights for the test track. Supervisors will be available any time to guide you through the process of making your ideas reality.

Project Work

The project work as well as necessary meetings will take place in person at the TUM Hyperloop facilities in Ottobrunn. Since the Project Seminar is embedded in the TUM Hyperloop team, you will be working in a functioning infrastructure and get in touch with plenty of international, like-minded people.

Application

For application, please send your CV and a short description (half a page) of your experiences in a project you already worked on and what kind of task you would like to get involved within the TUM Hyperloop team. Subsequently you will be added to our interview process.

Contact

Tim Hofmann (tim.hofmann@tum.de)