Sky-Carrier Schienensystem (Rail system)

Degree programme: BSc in Automotive Engineering | Specialisation: Vehicle construction Thesis advisor: Prof. Jean-François Urwyler

The population growth in the big cities is increasing apace. Especially during rush hours or in heavily frequented places, the available roads will quickly become congested. Lack of parking spots in multi-storey car parks or overcrowded underground trains are already part of the everyday life of many people.

The aim

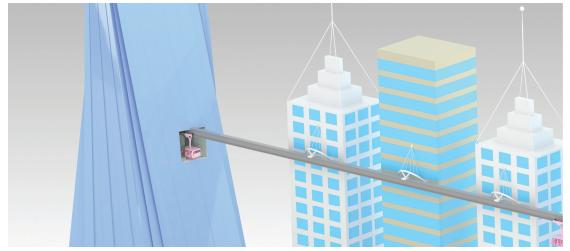
The main objective of this thesis was to develop a prototype representing a feasible implementation of a sky carrier train system. At its core are passenger cabins that are carried by a rail system, which in turn is attached to existing buildings. This prototype is built in 1:20 scale and consists of a support system, a switch and a slope to test the cabin.

Concept

Furthermore, visualizations of the respective infrastructure within an artificial urban environment were created. These include four switch points, a central station, as well as two secondary stations built into high rise buildings. To complete the conceptual city, a Sky Carrier providing connectivity between downtown districts, outskirts and even suburban regions.



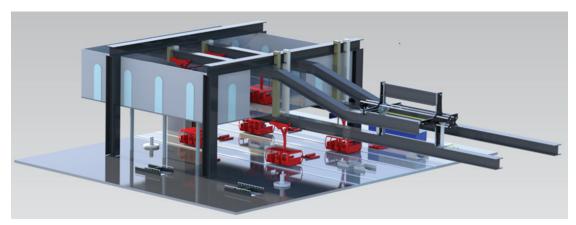
Allan Burri



Concept of a suspended rail with a station in a building



Dani Soares Loureiro



Concept of a train station with a star-shaped railway switch