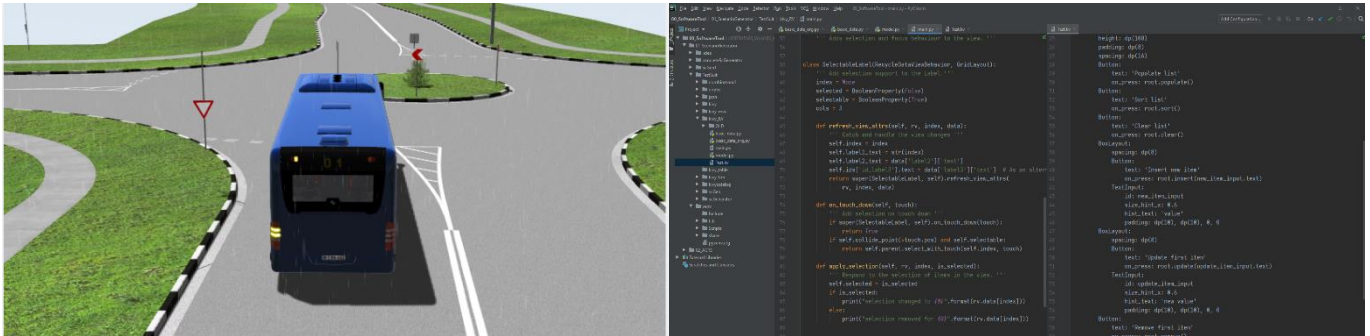# Bachelor Thesis/ Bachelorarbeit

Development of a python GUI framework for the generation of test scenarios for autonomous driving

[Entwicklung eines Python-GUI-Frameworks für die Generierung von Testszenarien für autonomes Fahren]

Today's society is facing big changes as autonomous driving (AD) is becoming a reality. To overcome the challenges of complex design and validation process, virtual testing has been accepted as one of the key measures. Within the scope of this work, a cross-platform framework for a graphical user interface (GUI) should be developed to support the generation of test scenarios for AD.

Scope of work:

- Development of python GUI framework based on a software design pattern like the Model-View-Controller (MVC)
- Implementation of create, read, update, and delete (CRUD) functions for data manipulation
- Planning and automating CRUD testing
- Documentation (Bachelor thesis)

Requirements:

- Motivation and interest in software and GUI development
- Basic knowledge in software architecture patterns is a plus
- Methodical and team-oriented mindset

Dauer:	Approx. 3 months
Beginn:	available immediately
Arbeitsplatz:	Institut / Home-based work

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