Design of Attachment Mechanism for Self-Driving Bikes

Bakgrund

In a research project the department develops self-driving bikes with the purpose to be used in test-driving experiments where vehicles’ safety systems for bike safety are tested. Volvo Cars, Veoneer, Autliv and AstaZero are partners in the project. The bicycle drives pre-defined trajectories carrying a dummy to look as similar as possible as a real biker to the vehicle’s sensor system. Designing the bikes contains several challenging tasks, and this project proposal concerns the mounting of the mechanism for the steering so that it can be mounted on any bike. The mechanism used today only fits one bike.

Problembeskrivning

The new mounting mechanism should make it possible to use the equipment on different kind of bikes so that they can also be used as test objects. It should be easy and not take so long time to move it from one bike to another. The new designed mechanism should be built and validated on some different bikes.

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