

Virtual Vehicle Application





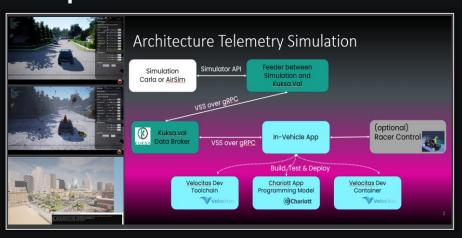
Goal of the challenge:

 Leveraged virtualized environments to generate vehicle telemetry data and use it to integrate with software-defined vehicle frameworks to build nextgeneration in-vehicle applications.

Example hacks:

- > Physical to Virtual test of In-Vehicle functions
- Virtual to Physical In-Vehicle Gaming

Example architecture:



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Data source & actuators:

Simulation Tooling

- Carla: CARLA Simulator
- Airsim: https://github.com/microsoft/AirSim

Device (optional)

PiRacer (based on Jetson Nano)

Projects involved:

- Chariott: Application Programming Model
- Kuksa: Data Feed Broker
- Velocitas: Development Toolchain for containerized in-vehicle applications