



Automatic Connection Device Underbody (ACDU)

Böblingen, 03.09.2019

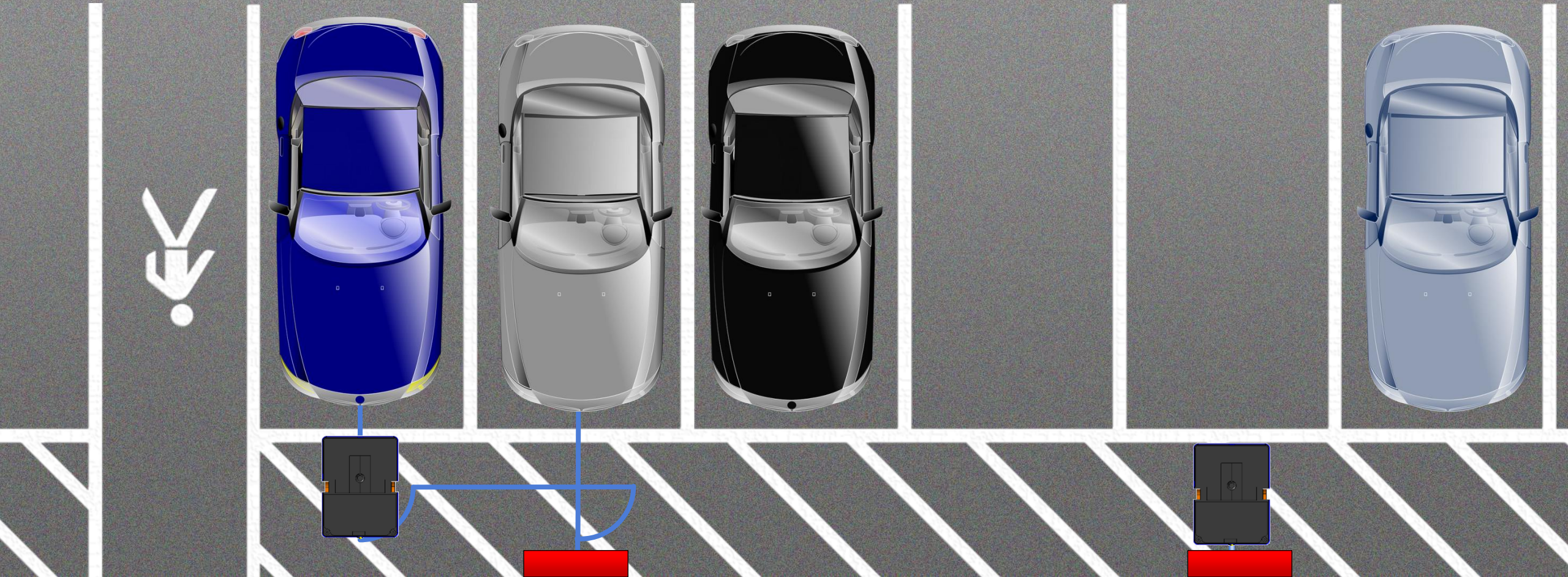
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IMS:GEAR



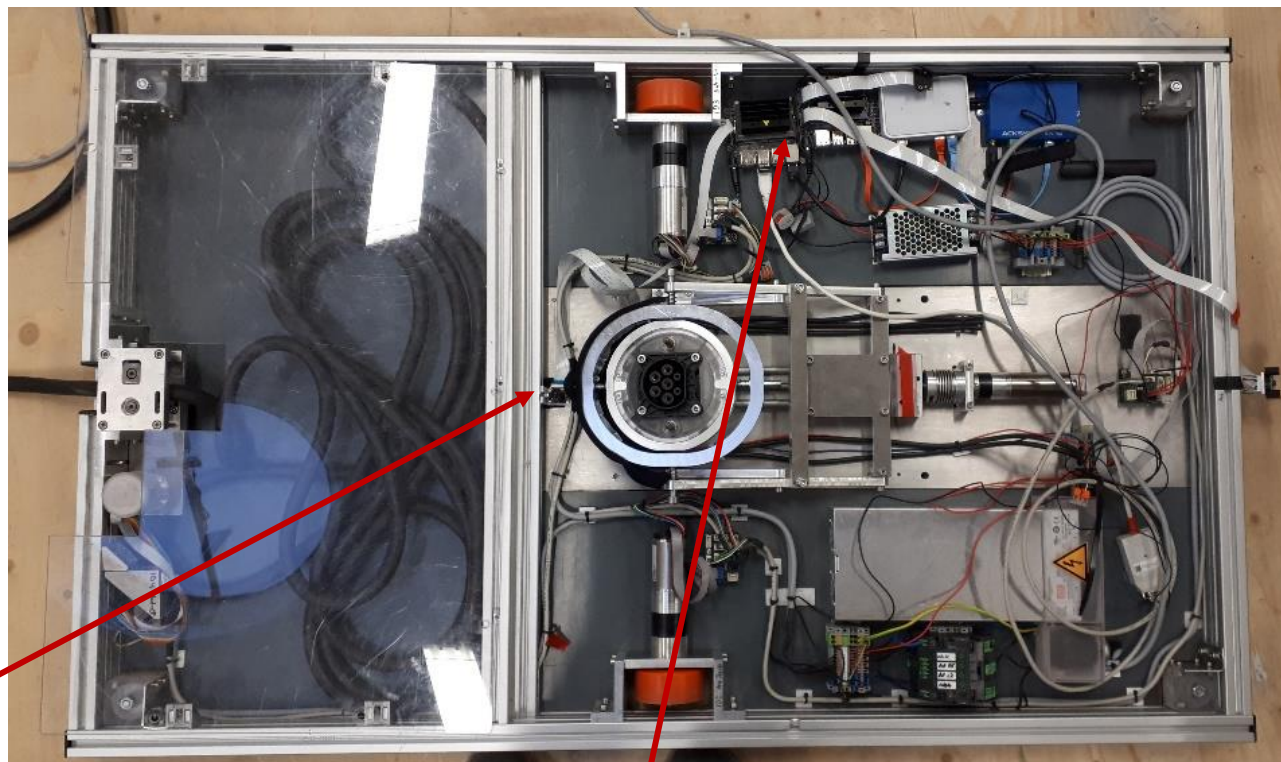
Concept

Concept of Operation



Components Overview

ROS



Top Camera for Docking Pose

- Waveshare 16680 IMX219-160IR Camera



FOV: 160
Image: 640x480
Price: ~22€

Path Planning and Navigation

- Jetson Nano



Price: ~100€

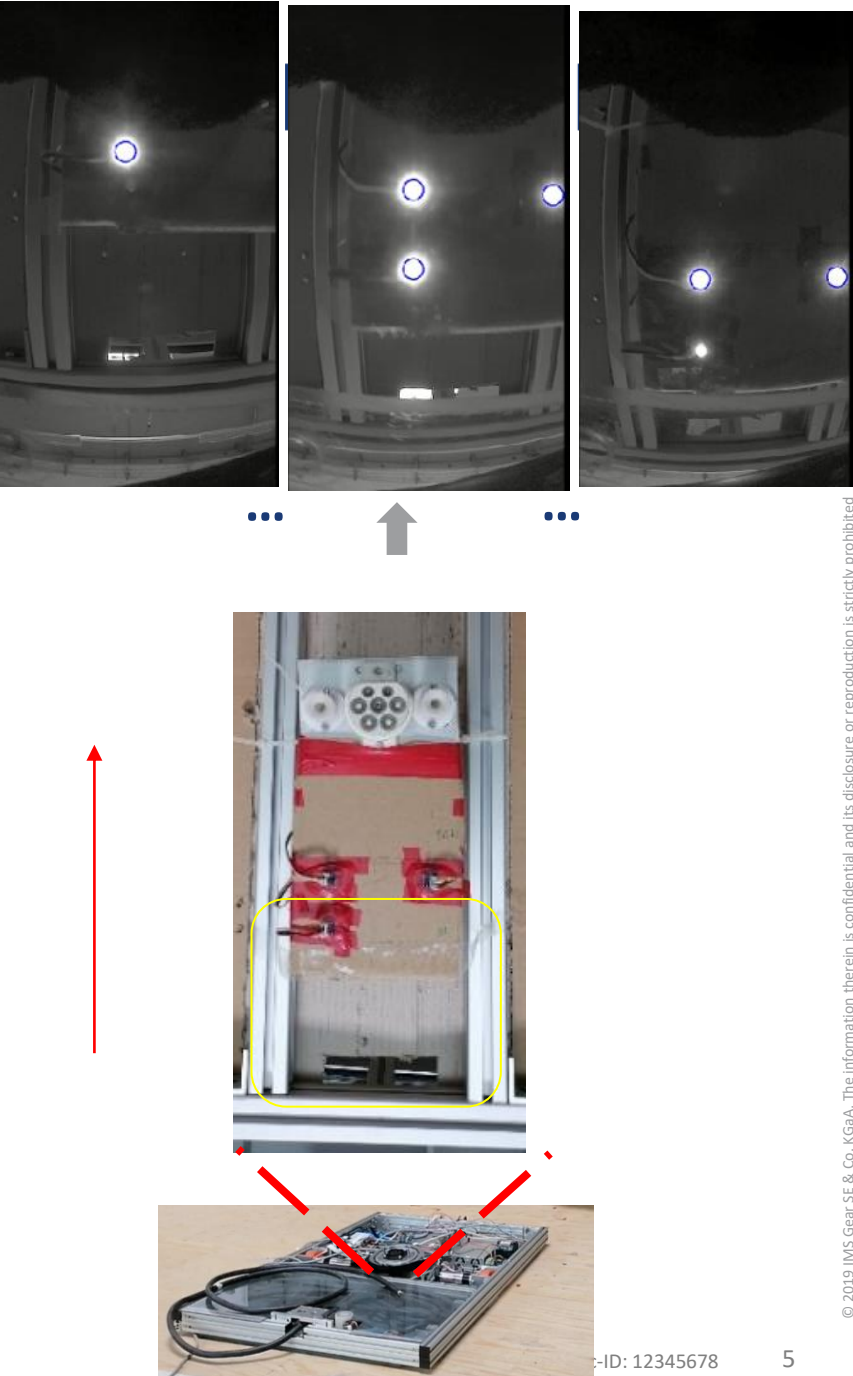
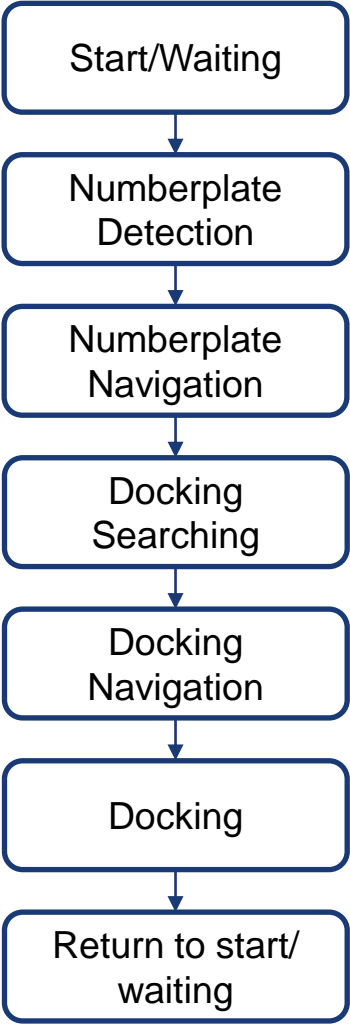
Front Camera for Numberplate

- Pi Camera

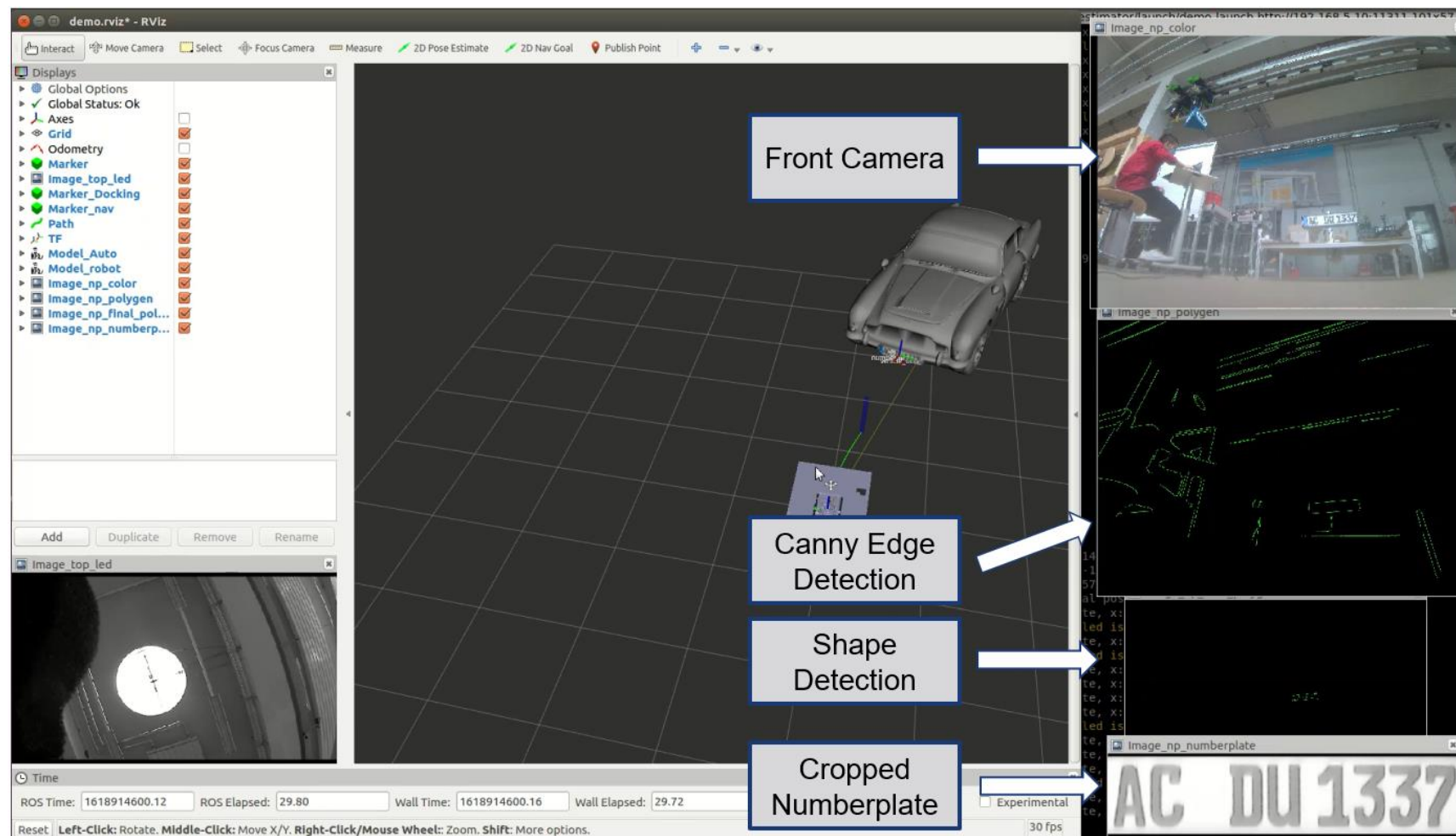
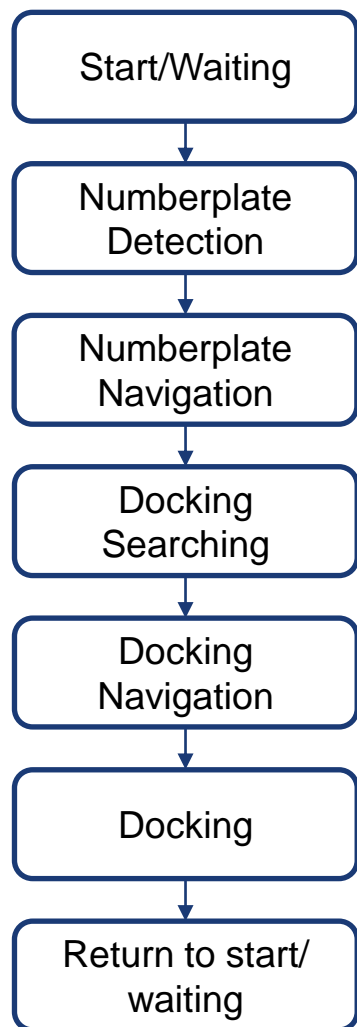


FOV: 40
Image: 4K
Price: ~25 €

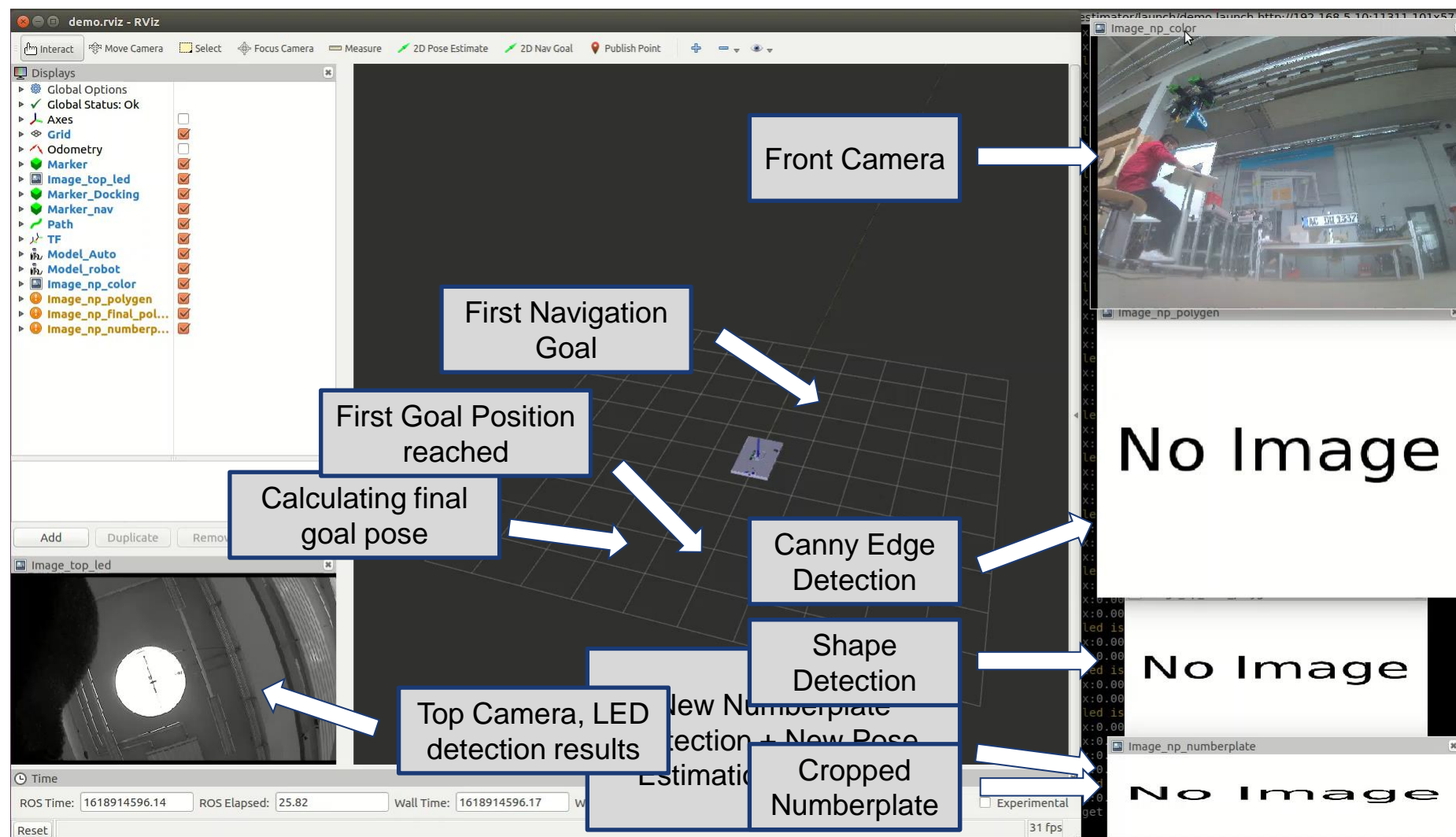
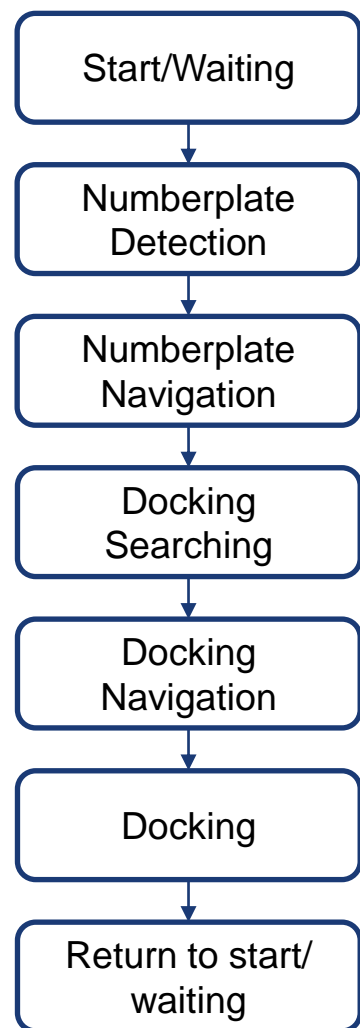
Process



Process



Process Visualization



Process Demo





Thank you!