CAD model-based planning and vision guidance for optical 3D co-ordinate measurement.

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Tube measurement based on stereo

Depending on the simulated contacting, the virtual tactile surface profile 8 b is derived, such that the virtual tactile surface profile 8 b represents the object surface 2 b as an object surface detected by means of a real tactile sensor. The approach is robust for differences between the CAD model and the real target geometry. While there are physical limitations when manufacturing long-standoff scanners, the limitations are fairly easy to overcome.

CAD model based virtual assembly simulation, planning and training

After kicking off serial production, specific aspects of car components or full cars are scanned to serve as SPC samples for quality monitoring and product audit purposes.

Quality 101: CMM Part Alignment

To create a serial inspection routine that runs on any CMM brand, you simply click points and features on a 3D part view and drag-and-drop them as icons on to a part program representation. The ToF sensor calibration is required in order to obtain direct transformation formula between both acquisition systems ToF-sensor and optical tracker.

Tube measurement based on stereo

The approach does not require any explicit feature extraction from the depth cameras frames. Programs are interchangeable between the two machines.

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