

Title: Preparation of VR presentations from CAD models

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Abstract: Analysis of a specific problem in virtual engineering department in ŠKODA AUTO, a. s. company, concept of the problem solution and implementation of the solution. Virtual engineering department employees use a Virtual Designer 2 application for creation of virtual reality worlds (new car concept presentations). This application does not fit well for the task of creating versions of these presentations. Maintaining versions using this program is a lengthy and fault-prone process. Application VR Aid solves this problem. It reduces and simplifies frequently repeating tasks and uses intuitive graphical user interface. VR Aid allows to speed up the process of creating new versions of presentations and spares precious employee time. It was designed to complement (and not to disrupt) currently used computer applications (cooperates with Virtual Designer 2, Opera and DeltaGen). Results of this work include new documentation of FHS and VRP file formats. During the application development a new system of communication between customer and developer was created. This system of communication is generally usable for GUI application development.

Keywords: virtual reality, FHS, Virtual Designer 2, ŠKODA AUTO, a. s., Python