

Summary

Technical products in the field of engineering become increasingly more complex. Along with this the product variety increases. Particularly in the field of production and maintenance of technical products the availability of the up-to-date product information is a challenge. An effective support of the user strongly depends on the way the user is supplied with this information. Today the data are found in manuals, operating instructions or electronic product data management systems (PDM). By the use of Augmented Reality these information can be presented directly in the working environment and at the product.

Therefore, a software architecture is designed in this thesis, to use the technology Augmented Reality on different mobile devices in order to present product information into the user's field of view. That way, the technology Augmented Reality supports the user in all phases of the product life cycle.

The architecture presented in this thesis is a client/server architecture. The architecture uses model-based marker-less. An application for the presentation of domestic appliances was prototypically implemented. The system recognizes different domestic appliances. The user can configure a kitchen around the domestic appliances and can get information about the domestic appliances.