

**Studienarbeit**  
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**Automation Engineering Approach for a User-friendly  
Human Machine Interface of a Paper Winding System**

**Abstract**

The purpose of this work is to create documentation for a general comprehension of paper winding systems based on a real project. It describes the background and implementation of the project work at the paper winding system, developed at Savonia UAS in Kuopio (Finland) in 2004 and enhanced in 2016. The main point is the automation of the system and therefore the development of a user-friendly human machine interface. With this document, following project works can continue seamlessly.

**Prüfer: Prof. Dr.-Ing. Uwe Meier**