



Development and Implementation of a Software Analysis Visualization Concept (BA/SA)

Lehrstuhl für Automatisierung und Informationssysteme
Technische Universität München
Prof. Dr.-Ing. Birgit Vogel-Heuser



Task Description:

As part of this thesis, you will develop an attractive graphical user interface for our chair's code analysis tool.

Analyzing the strength and weaknesses of a developed software is a crucial step in engineering. The Chair of Automation and Information Systems has developed and is using a software analysis tool, which provides valuable insights during the engineering process, such as quality metrics and a graphical representation of the code. We regularly introduce new functionalities that must be visualized to facilitate intuitive user access.

Therefore, **your task** will be to develop and implement a new visualization concept, relying on feedback from industry partners and software developers from our chair as well as findings from the literature. Along the way you will gain valuable knowledge about visualization concepts, their implementation and the code analysis process in general.

Preliminaries:

- Knowledge and experience in programming C#
- Interest in industrial automation and software engineering
- Independent and self-reliant work ethic

Luis Steuter

Tel.: +49 (0) 89 / 289 165 80
E-Mail: luis.steuter@tum.de

