Master thesis proposal

Development of a time data management system based on time blocks
at Swegon Operations Kvånum

Background
Swegon produces HVAC units for large commercial buildings. The product variety is large but based on a modular concept that makes it possible to reduce the complexity in the production process. Presently, Swegon needs to determine times for every variant of different modules. This is very time consuming and a smarter way of working is needed. Swegon is involved in a research project called TIMEBLY that is lead by Chalmers.

Task
The product and module structure need to be analysed to map similarities in activities and to figure out how differences between variants can be expressed by different parameters. The next step is to design customized time blocks based on a theoretical model developed in the TIMEBLY project. The thesis project will be delimited to a few types of modules. The goal of the project is to formulate a future work process for Swegon based on the time blocks, that will radically reduce the time and effort that the engineers at the company need to spend on maintaining high quality time bases.

Practicalities
Data need to be collected on site in Kvånum to some extent, but a lot of the communication can be handled remotely. We are looking for two master students, preferably from Production Engineering. At least one student needs to be able to read documentation in Swedish. Swegon covers travel costs.

Contact
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