Student project proposal

Project title  Interface layer with SCADA

Project type  ☒ MSc thesis  ☐ BA semester project  ☒ MSc semester project

Project responsible and e-mail
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Project description
The aim of the project is to develop a software layer able to communicate with a Supervisory Control and Data Acquisition (SCADA) by using power system standard compliant protocols (e.g. DNP 3.0, IEC 61850, IEC 60870). The student has to take care of designing and implementing an efficient and scalable piece of software able to communicate measurements, alarms or events to the receiving unit. The protocols themselves do not have to be implemented as they are already available.

Tasks of the student
- Conceptual design of the software layer and understanding of the basic behind the chosen protocol
- Implementation in LabVIEW (libraries of protocols are available).
- Validation by using real SCADA hardware and software as receiving unit.

Requirements
- LabVIEW basics
- Easiness in software coding