Development of an OPC UA Server

Current situation
In order to precisely predict the quality of weld seams using deep learning approaches, enormous amounts of data are required: during experimental investigations, a wide range of measured values can be recorded, which must then be stored suitably. The storage of this data is often difficult and challenging, since the data can be available as images, text files, etc.

Objective
In the context of this work, a OPC UA server based on a Arduino shall be developed. This server shall be integrated in our production systems and be connected to our database to acquire production data.

Profile of requirements
Personal initiative and creativity, reliability, structured working, first experience in SQL, OPC UA, and PYTHON

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