Development of an IoT dashboard

Introduction
Due to recent developments in the area of machine learning and industrial IoT, the Institute for Machine Tools and Industrial Management (iwb) developed a novel predictive maintenance algorithm. This algorithm was demonstrated at a Grob G350 machine tool and visualized with a python dashboard at this year's EMO fair.

Objective
Within this IDP, the initially developed dashboard has to be re-structured and has to be re-programed from scratch. First, the student has to develop a modular dashboard architecture, which allows the integration of several machines and data sources. Second, the developed algorithm has to be included in the dashboard and third the dashboard has to be demonstrated at a real machine tool in the iwb laboratory.

Requirements
Interest in industrial IoT solutions, programming skills in python, JavaScript (for example react.js), Fluency in German and English.

Contact
M. Sc. Maximilian Benker
Tel.: 089 / 289 15470
maximilian.benker@iwb.mw.tum.de