



Internship/Working Student at MTU Aero Engines AG

Development of a Graphical User Interface for a mechanics predesign tool in Python

Field of Research

The design of aero-engines is carried out by advanced predesign tools capable of combining an increased number of various disciplines. For this reason algorithms calculating the mechanics of compressors are being developed. The user interacts with the algorithm by providing the required design parameters as input and analysing the output of the calculations. A graphical user interface (GUI) is of high importance to improve this continuous exchange and processing of information. This internship focuses on developing and testing a prototype GUI for the mechanics calculation of compressors, based on an in-house developed advanced engineering program. The graphical user interface should be fully functional, intuitive and user friendly, complementing the design process.

Tasks

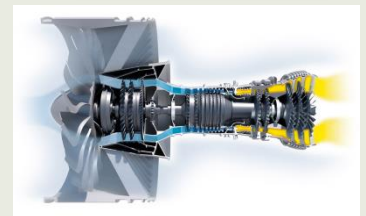
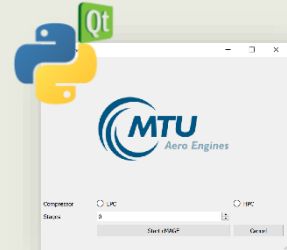
- Development of a prototype GUI
- Creation of the basic program structure
- Investigation of possible interface protocols
- Testing of the prototype and documentation of the process

Prerequisites for potential candidates

- Studying in aerospace/software engineering or a comparable course of study
- Programming experience in Python (PyQt)
- Autonomous and precise style of work
- Can-do attitude and ability to take initiatives
- Good English language skills

Application

- If interested, please send your brief application including an up-to-date CV and transcript:
<https://www.mtu.de/de/karriere/jobboerse/>



Contact

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