

## Bachelorarbeit/Masterarbeit

# What factors affect the adoption of open source machine tools for production purposes?

### Themenstellung:

Open source machine tools (OSMT) are machine tools whose blueprints are published freely on the internet for anyone to build and are seen as a key enabling technology to democratizing manufacturing technology. OSMT can be found on the internet as DIY or homemade machine tools such as 3D printers, milling machines or laser cutters. However, these have predominantly been used for hobby purposes and not much has been reported on their use for production purposes.

This thesis aims to generate insights in factors affecting the adoption of open source machine tools (OSMT) among start-ups, companies, and individuals in and surrounding Hamburg. For this, the student is required to develop a concept for data collection through interviews and to conduct and analyse these interviews. From this, the thesis should deduce the factors influencing the use of self-built machine tools in a resource-rich context such as Hamburg.

Contents Objectives of the thesis include the analysis of successes and failures of OSMT implementation at the hand of specific examples and the determination of possible reasons, the evaluation of make or buy decisions involved for OSMT practitioners, and the deduction of recommendations for OSMT implementation in developing countries.

### **Bei Interesse wenden Sie sich bitte an:**

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