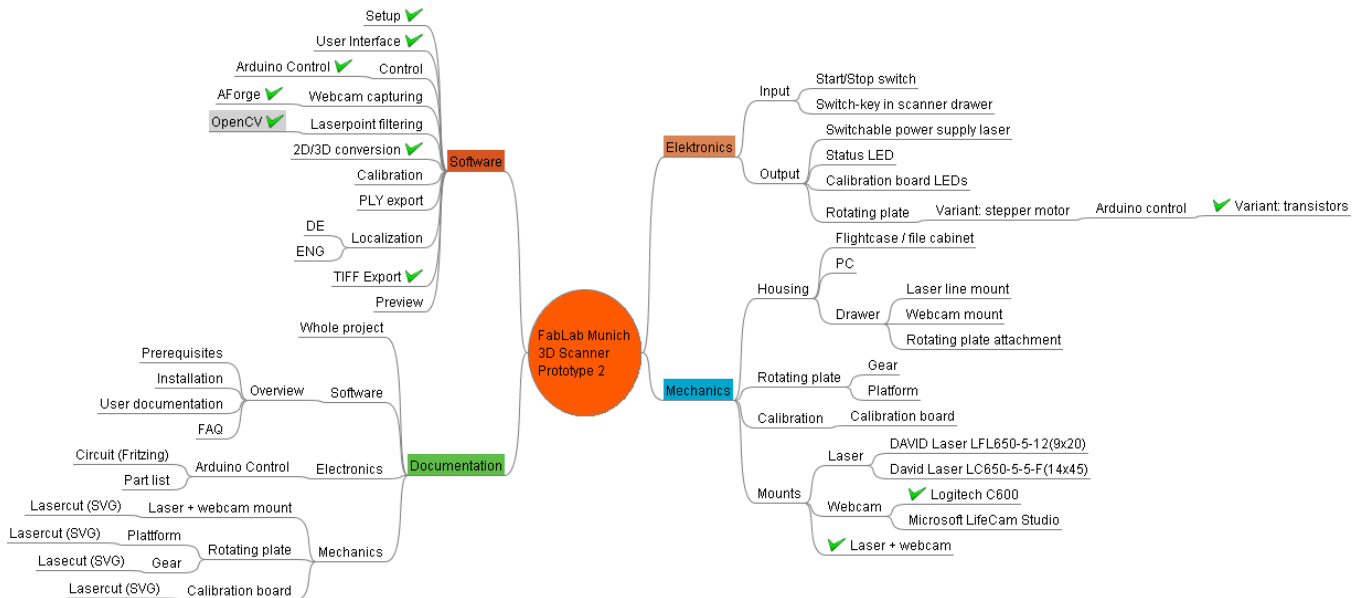


# FabLab Munich 3D Scanner - Prototype 2

## Project Overview



## Software

The software FLMScan for prototype 2 is based on the FLMScan software of prototype 1.

The following improvements are planned for prototype 2 of FLMScan software:

- Calibration functionality
- Installer
- Improved user interface
- Rotating plate control via serial interface
- Export of bitmaps
- Preview functionality
- Support of German and English language

## Electronics

Three electronics subprojects are planned for prototype 2:

- Electronics for calibration ("calibration board")
- Electronics for housing (switch-key, power supply light/laser)
- Electronics for rotating plate control (PCB)

## Mechanics

Several mechanics subprojects are planned for prototype 2:

- Rotating plate mechanics
  - Lasercut for simple rotating plate platform (rotating plate directly mounted on stepper motor axis)
  - [Lasercut for rotating plate with gear](#)
  - [3D print for rotating plate with gear](#)
- Lasercut for calibration board
- [Lasercut for webcam- and laser mounts](#)
- Mechanics for laserscanner housing

## Documentation

Documentation of software, electronics and mechanics is planned for prototype 2.

Documentation subprojects are:

- Documentation of whole 3D scanner project in FabLab Munich Wiki

- Documentation of FLMScan software
- Documentation of electronics (including part list and circuits)
- Documentation of mechanics (including vector graphics for lasercuts, 3D models for 3D prints, as well as mounting instructions)