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Bioprinter.

DESCRIPTION

DETAILS

## What we're all about



So therefore we developed a system that will allow us to make use of the already proven capabilities of the easily obtainable Ultimaker **2+** print platform.

Instead of having to aquire expensive building blocks the end user, e.g. researchers and doctors, will be able to cheaply print nearly all parts by himself except some simple Print your own metal parts and standard wires. Due to the Bioprinter parts minute effort required for the **transformation** from **FDM printer** to **bioprinter** our system can be utilized and fitted to its user's needs without extensive mechanical knowledge.

## Why Bioprinting is an important future technology

One of the major limitations in medical care is today the shortage of graft transplants.

In 2015 there were 120.000 patients waiting for a graft organ and only 1/4 of these patients received a new organ in this time period.

We are a team of students from the Ludwigs-Maximillians-Universität and the Technische Universität München developing a novel approach to bioprinting utelizing a hijacked Ultimaker 2+ instead of expensive specialized labware. This documentation describes the development of our

This section can be used to explain everything about your project.

rethink bioprinting

It is our goal to be able to print **biological materials** and even cells in a high precision manner for an affordable prize to assist scientist like us to hopefully allow for practicable **biotink 3D bioprinting** for skin grafts and in the future maybe organs. As our team takes part in the iGEM competition and for this tries to modify cells in order to make them printable, we will be the first to test the device will be able to help us make bioprinting work.

