

# Cookiedecorationmaschine

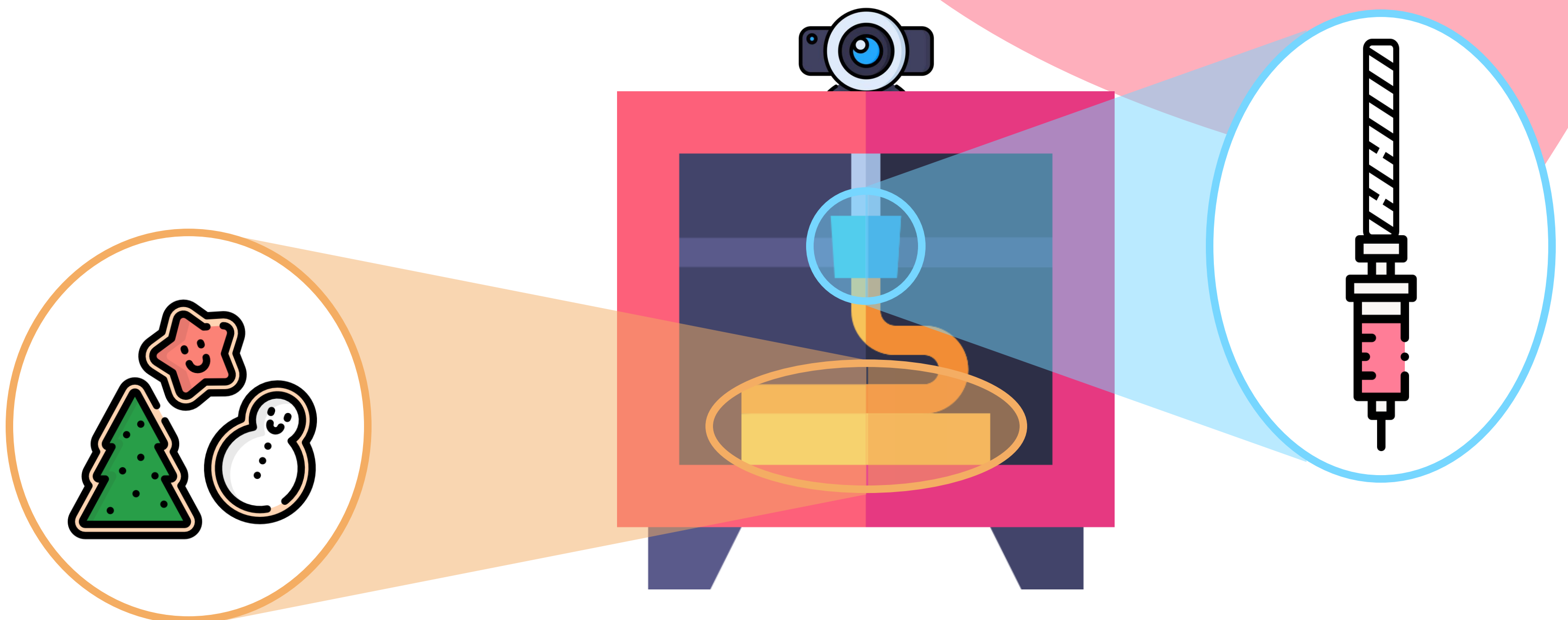
## PROJECT IDEA

The Cookiedecorationmaschine is the ultimate tool for confectioners to add some extra flair to their cookies with frosting. It uses image processing and automated triggering the confectioner doesn't have to do anything by hand.

## FUNCTIONALLITY

The machine operates similarly to a 3D printer:

- Camera for cookie detection
- Cookies displayed on printer pad
- Filament replaced by frosting
- Nozzle as printer head



## TECH-FACTS

Extrusion

- A spindle
- controlled by a step motor
- nozzle plunger to extrude frosting.

- using Python and OpenCV
- Raspberry Pi controls the 3D printer
- OctoPrint for remote control.

Software

