# Algorithms description

## Reading input from user

## Spinning at defined speed (V mode)

## Spinning for defined number of revolutions (R mode)

## Spinning for defined number of revolutions at defined speed (RV mode)

## Singing (T mode)

# Tasks analysis

## Inter-task dependencies

Tasks use their own variables, do not require inputs from other tasks – where they do (PID to PWM) it’s not crucial

## Task timings

### Deadlines

New PID calculated before it’s necessary for control

### Initiation intervals

Measure photointerrupt -> new state on motors (in highest speed)

## CPU utilisation

Put timers into code and output them

Toggle digital output in idle time