

# Design of Ventilator Controller using Microbit

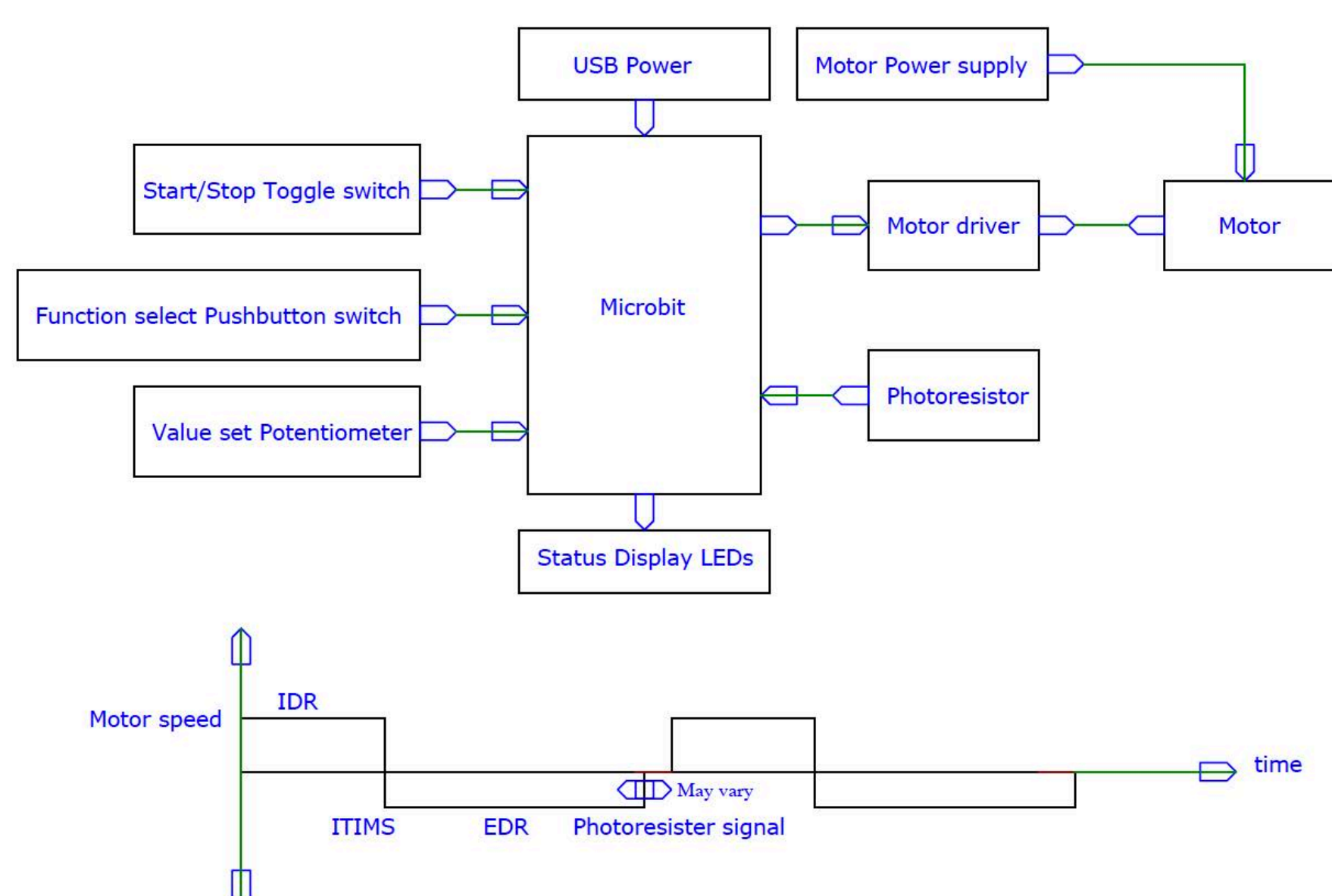
## Introduction

To demonstrate the control platform for a simple ventilator using software and hardware. We assemble an electronic controller for the ventilator using a micro bit.

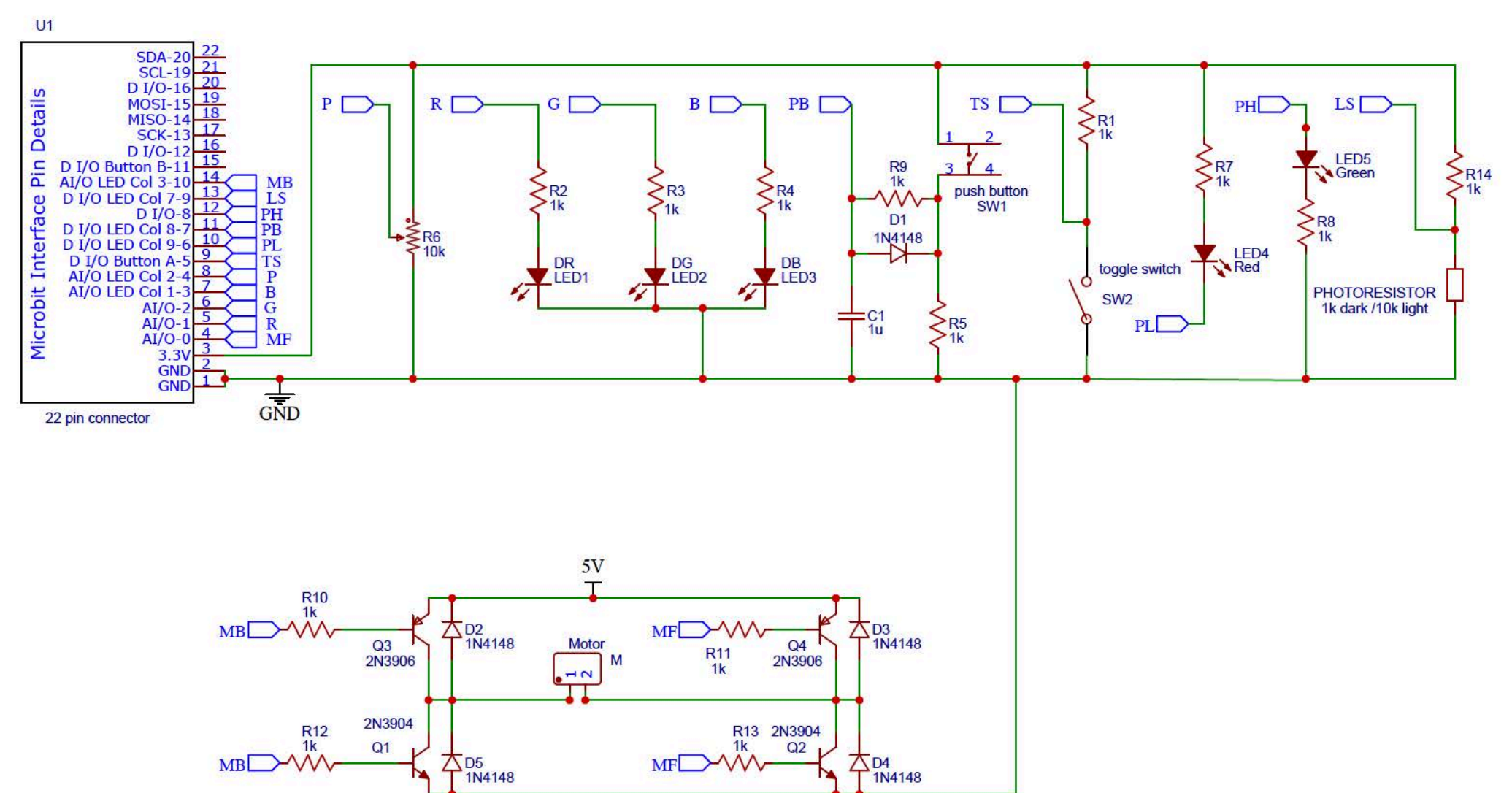
## Objectives

- Block-diagramming
- Micropython plotting
  - Hardware testing
  - Software upgrade
- Project demonstration

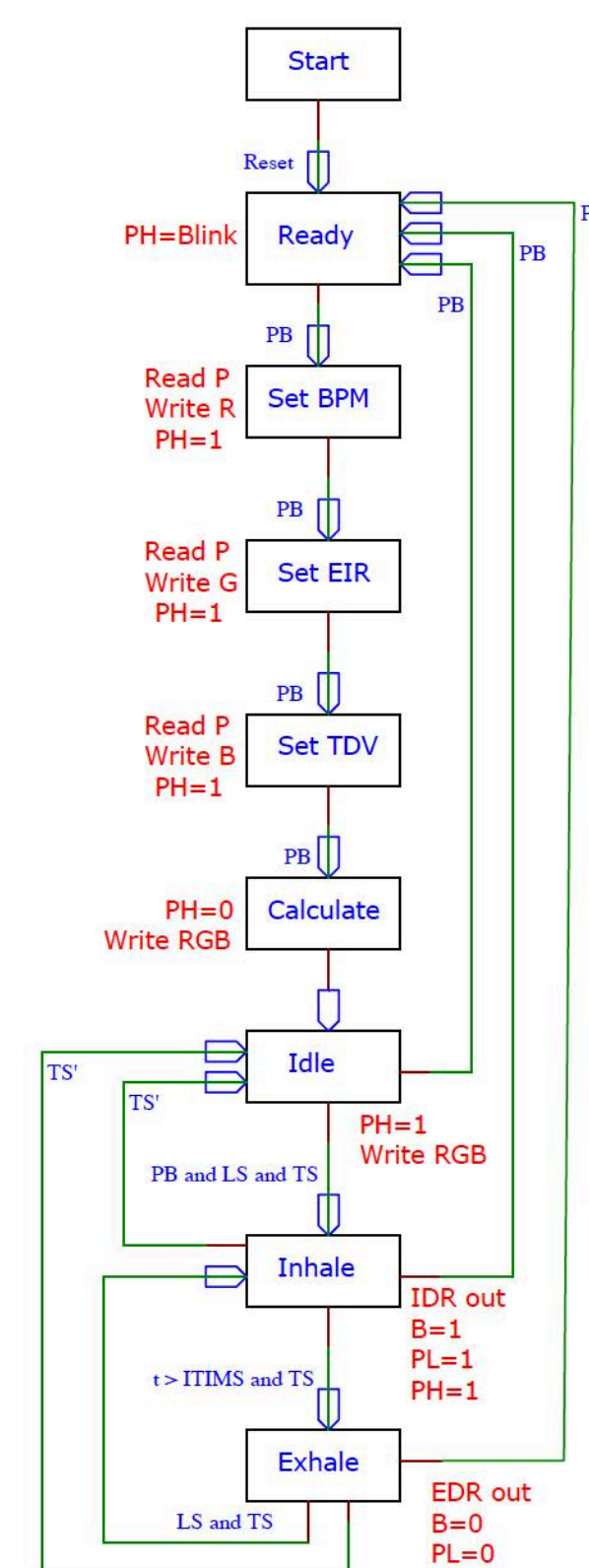
## Block Diagram



## Circuit Diagram



## Flow Chart



## Results

Successfully loaded the Micropython code into the Microbit and had the software and hardware components work perfectly.

## Conclusions

We were able to successfully demonstrate the control platform for a simple ventilator using software and hardware