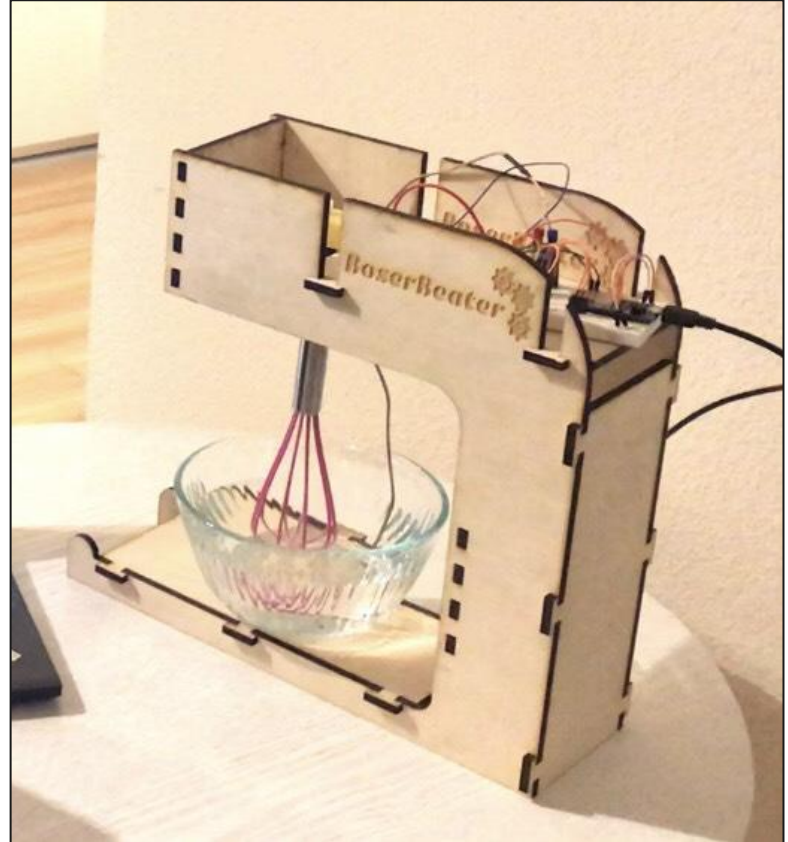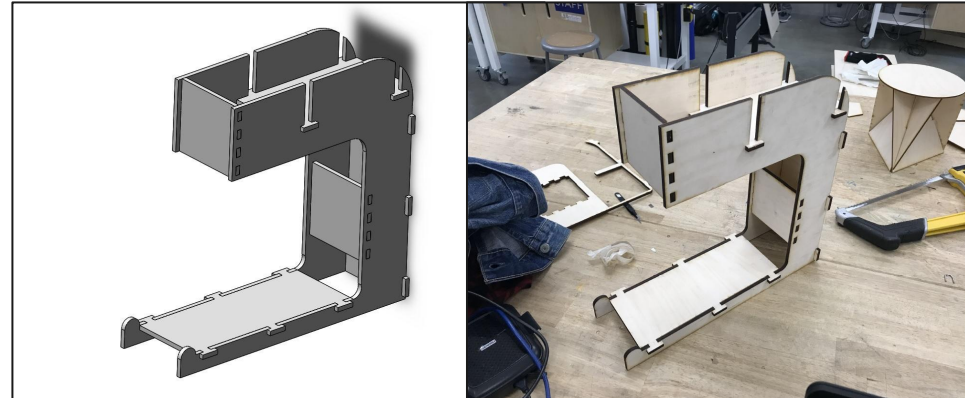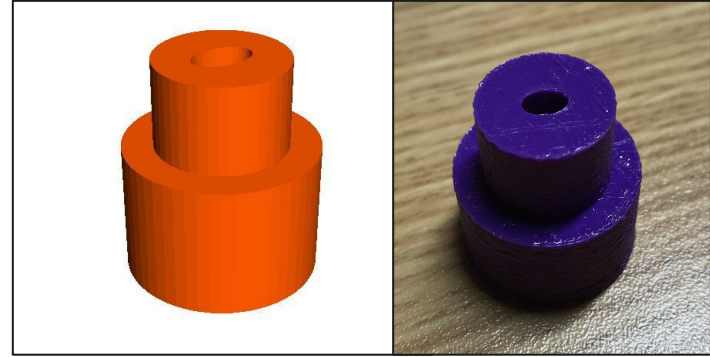# The BoserBeater

Charles Lin
Kenny Tan

Overview

To help you with your egg beating and kitchen mixing needs, the **BoserBeater** provides wireless speed control and temperature of the mixture.
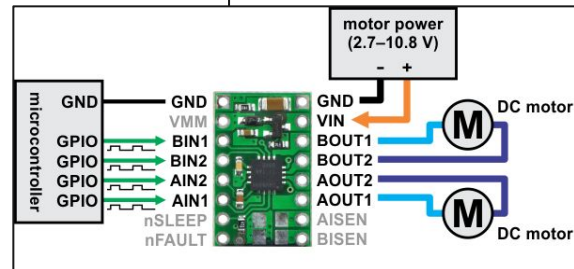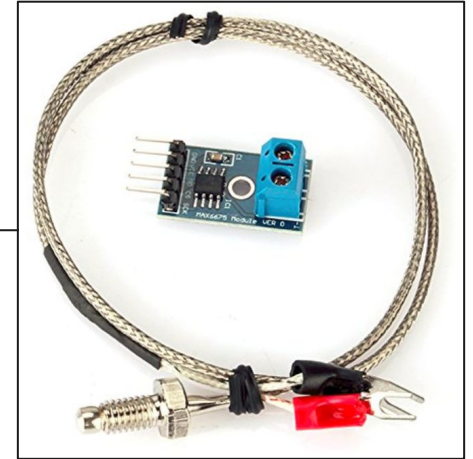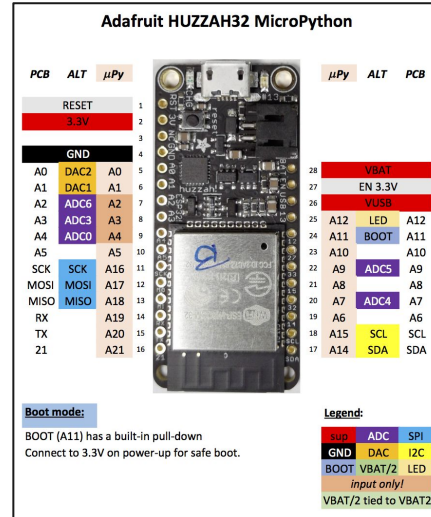
Mechanical

- Mount designed for various sizes of containers
- Made from laser cutted 0.25" wood
- Modular design for easy assembly
- 3D printed whisk mount

Electrical

Components:

- ESP32
- Thermocouple - MAX6675
- Motor driver - DRV8833
- Car kit - DC Motor
- Cell phone wall charger

Software

Boot.py

Connects to WiFi - a laptop mobile hotspot

Main.py
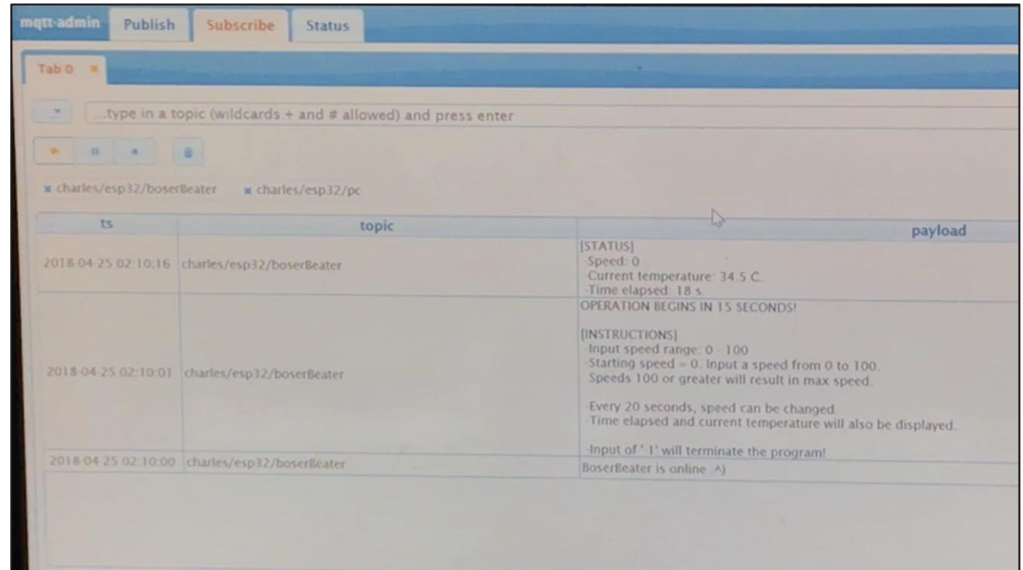
Connects to MQTT

Configures pins

Communicates with MQTT every 20 seconds

Max6675.py

Library to enable use of the thermocouple

User Interface: HobbyQuaker

- Broker(s)
  - Iot.eclipse.org
  - broker.hivemq.com

Demo Video

Link: https://berkeley.box.com/s/63wl6zbvcpy2fmkhchn80lw041pij720