Project Completion Guide

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The project completion guide covers things that need to be done for the first prototype to function properly. You can go to the Rapid Prototyping Lab or the Maker Lab for 3D printing.

**MCT:**

3D print the casing and install the components in the casing. The CAD files of the casing is in the CAD files folder. The name of the files are “Remote Control Hull” and “Remote Control Lid”.

Note that the Keypad is plugged into the Arduino Mega at the moment. After securing the keypad on the casing, you will need female-male Dupont connector wires to connect it to the Arduino. From left to right, the keypad pins are connected to 36,38,40,42,44,46,48,50,52, GND.

**BCS:**

Examine the current CAD files of the BCS casing and adjust them according to the need of the current electronics. The files are “Switch Box Hull” and “Switch Hull Lid”. 3D print them after adjustment.

Connect wiring for the fan and mist maker. See the Wiring Guide for the Wiring.

See the BCS Assembly Guide to make new ones.

**DCS:**

Design a casing for the DCS. It will also work without the casing.

**IBS:**

Install the fan and the sensor. Solder and connect the sensor with the Dupont Connector.

**Further Improving the system:**

Set up 2 way WiFi communication to replace the DCS.