

Figure 01 – Flow Chart

Blocks and their Functions

• Camera A –

o Capture and send the Optical data.

PC –

- o Calibration.
- Onboard Procedure.
- o Image processing and G code Generation.

User –

- Calibrate Once in a while.
- o Onboard Incoming panels (one time operation).
- Running the program.
 - Select panel type
 - Click on screen to take image

• Arduino -

- o Back and forth communication with PC.
- Send Pulses to Motor drives in CNC Machine.

CNC Machine –

- o Moving ultra-sonic tag gun.
- o Tag the garment using pneumatic.

How the Running Operation Works

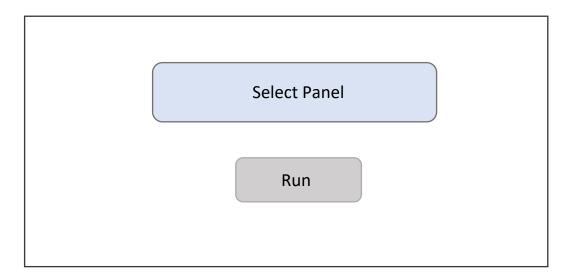


Figure 02 – Sample of the UI

- Select Panel task is a dropdown task.
- Run in the above UI is a button.
- User can place N number of panels adhering to M number of Orientations.
- After Placing panels, User clicks the Run button and everything will be Automatically work according to the need.

Calibration Procedure

- Place the pre printed pattern on the bed.
- Carefully aligned to x , y movement axis.
- Follow guided Procedure on the screen.
- Entry of values clicking on the screen.

Onboard Procedure

- Panels can be placed in fixed number of orientations(M).
- A guided procedure with entry of values and clicking on screen to specify tagging locations.
- Orientation specific data must be captured M times.