Rules for Apps Inventions With/Without Microcontrollers

If your invention is or includes an app that solves a problem, it is acceptable for the invention convention as long as the additional information listed below is included with the inventor’s prototype, and the inventor can speak to each of the associated areas.

- If your invention is an app, you will need to provide #1 and #2 below on your display board and be able to explain to judges how your app’s logic flows and the code printout of the code used to create the app. Be prepared to explain both in plain English. You may code in any language you want; if the entire listing doesn’t fit on the display board, you may display a portion of it, but include all of it in your inventor’s log.
- If your invention is an app that interfaces with a microcontroller, you need to include #1, #2 and #3

1. Logic Flow Chart
This a drawing showing all the logical steps that the App performs as it operates the device. The Flow Chart could be made with a CAD package or simply drawn by hand.

2. Code Printout
This is a listing of the computer code used to create the App. You can use any language you want for the App.

3. Electrical Schematic
This is a drawing of the electrical connections between the various parts showing how everything is connected together. This can be done with CAD software using the correct electronic symbols or simply draw rough images of the components by hand. You do NOT need to show the schematic of the Microcontroller itself, but just show the wires and components attached to the Microcontroller.