



## Schematic & PCB for a Color Sorter

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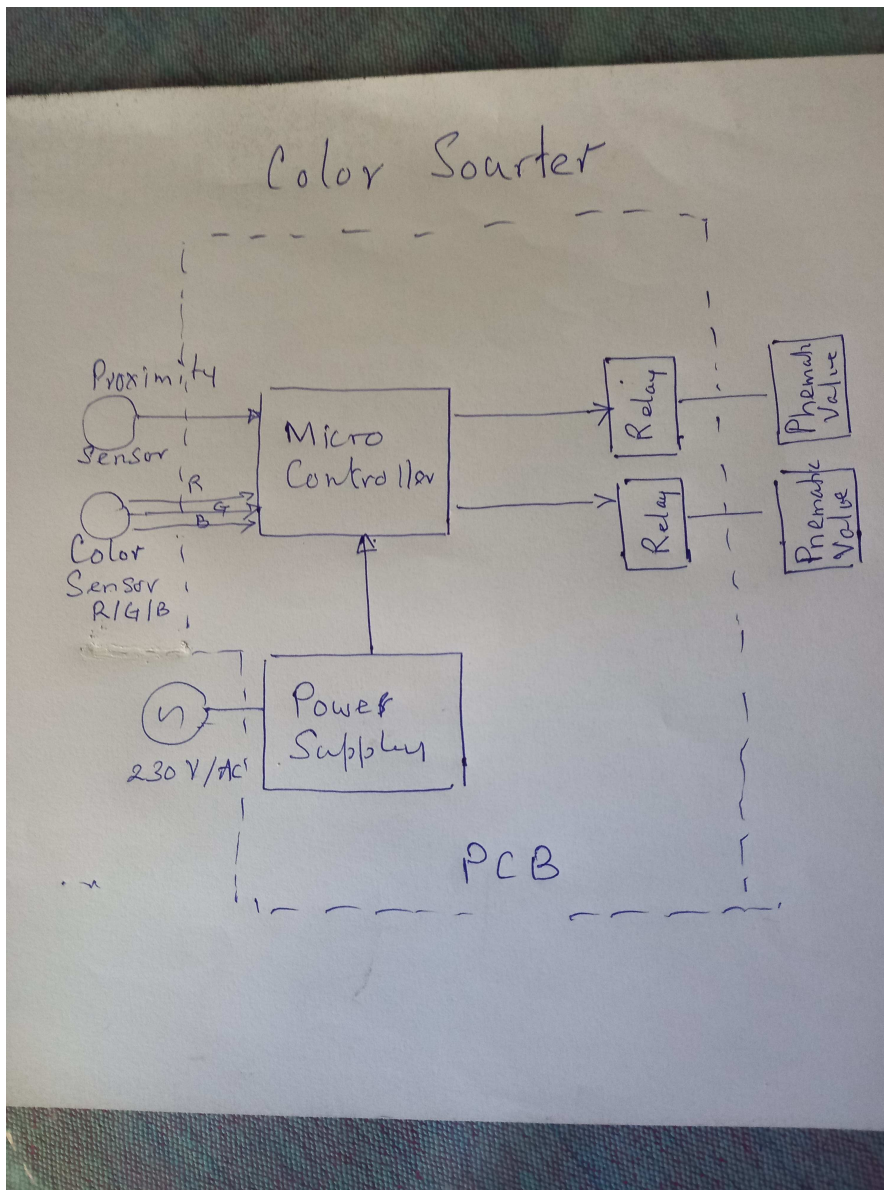
You are required to draw a schematic and corresponding PCB during 7th Feb 2024 lab session based on the block diagram upload here.

This system detect the items coming on a conveyor belt using a proximity sensor and the color using a sensor which has three outputs to identify the prominent primary color (ie. Red, Green or Blue). Based on the information received by these two sensors, microcontroller activated top relay for Red, bottom relay for Green, both relays for Blue. Relays are activated if the proximity sensor identifies an objects. Relays are de-energized after one second delay after identifying an object.

The sensors and Pneumatic Values are external devices connected to the PCB through proper connectors.

You may spend 15 minutes for planning your schematic, 30 minutes for drawing the schematic diagram and remaining 75 minutes for placing components and routing the PCB.

2.9 MB




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