# EP PROJECT REPORT

Group 4:

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About Project:

Aim of the project is to build a PCB which performs motion sensor based light system. Passive Infrared sensor is used to sense motion, almost always used to detect whether a human has moved in or out of the sensors range. These are small, inexpensive, low-power. Idea behind the project is **SMART HOUSE** project which we done earlier, where we connected all the sensors, resistors, Arduino on a bread board. Instead of bread board here we are designing a pcb which has all resistors, capacitors, sensors embedded.
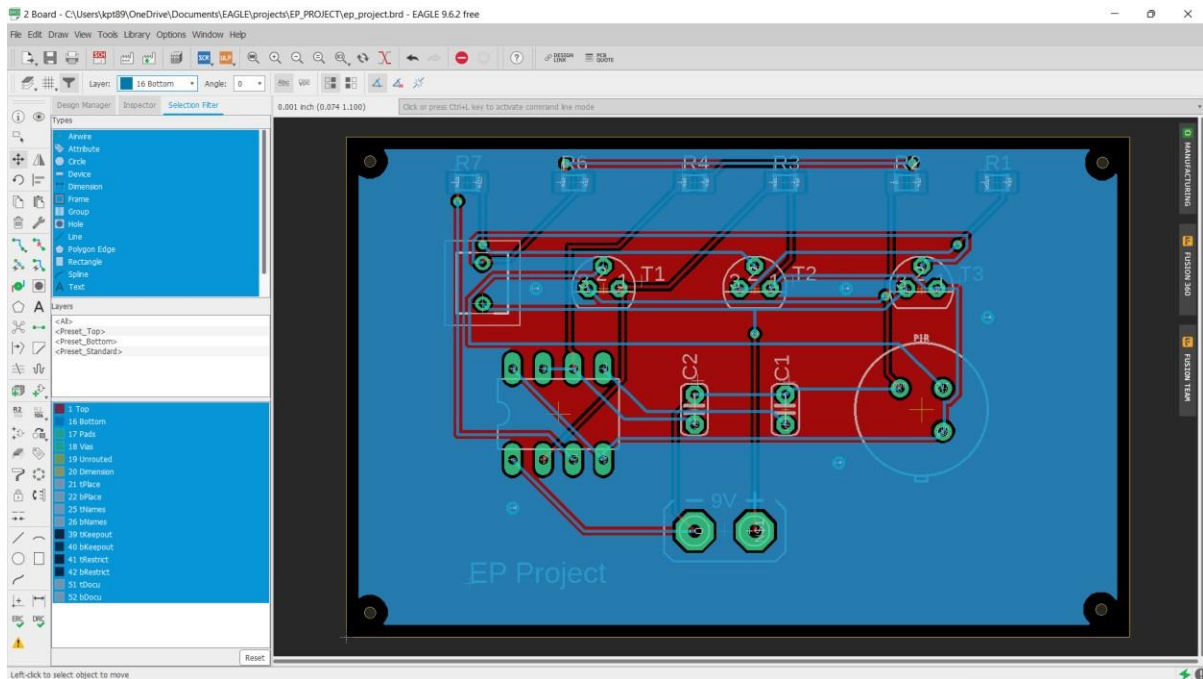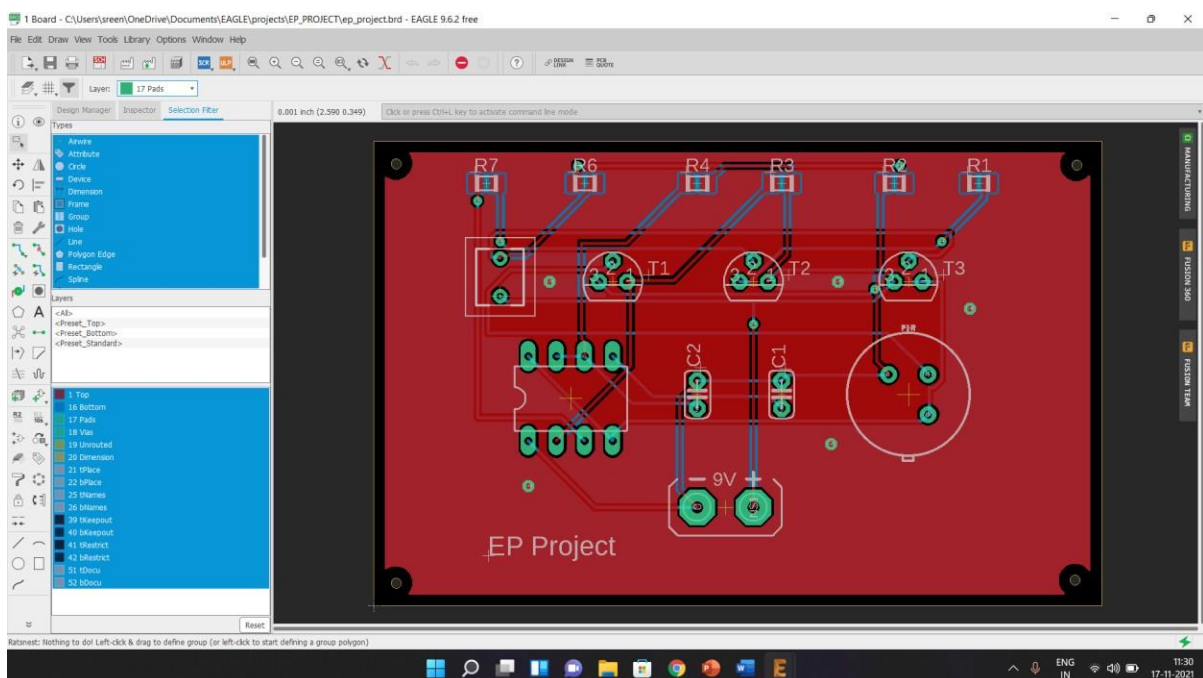
Schematic Circuit:
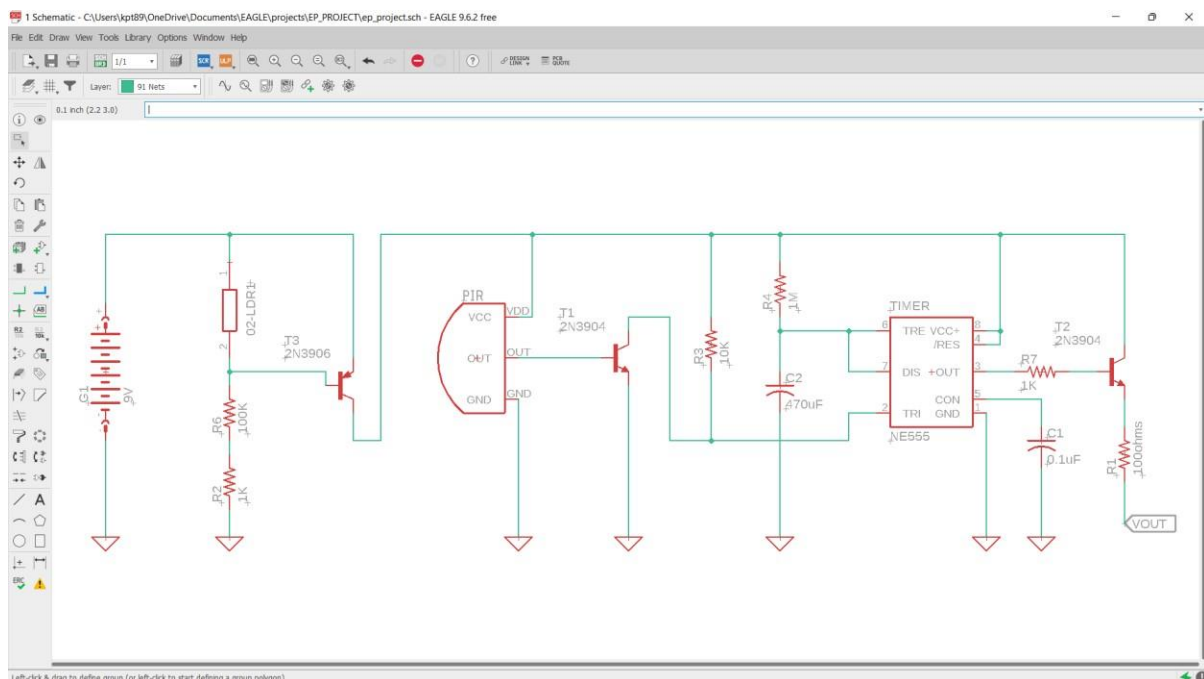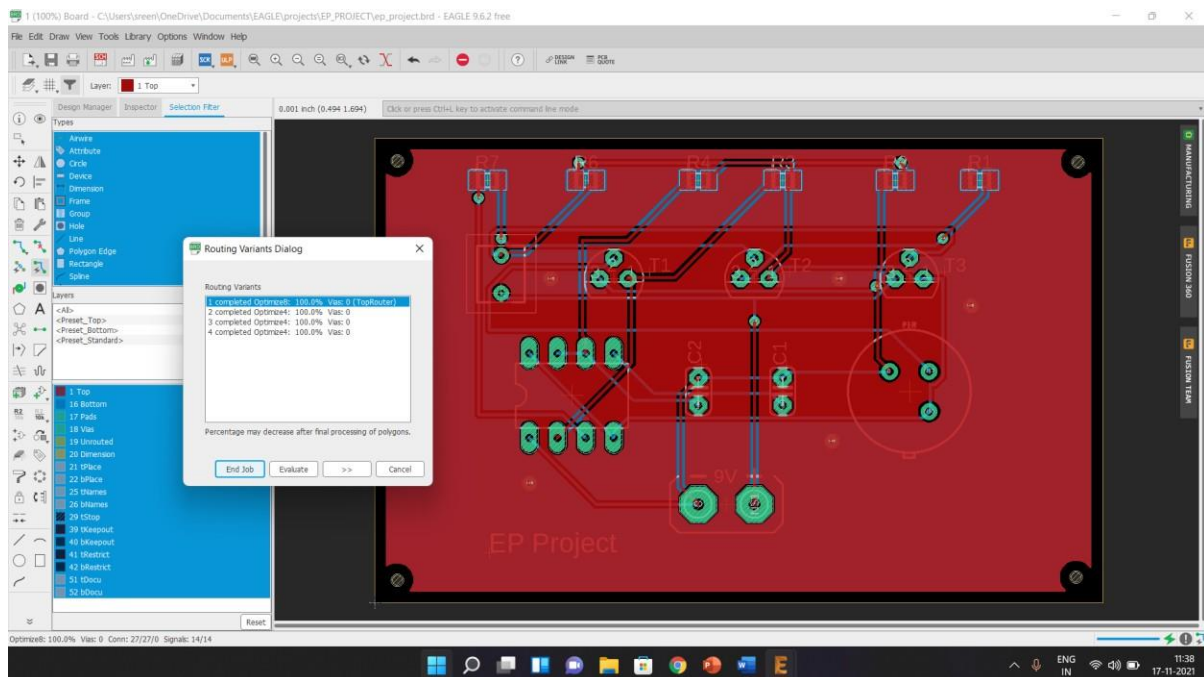
Board Design:

TOP LAYER
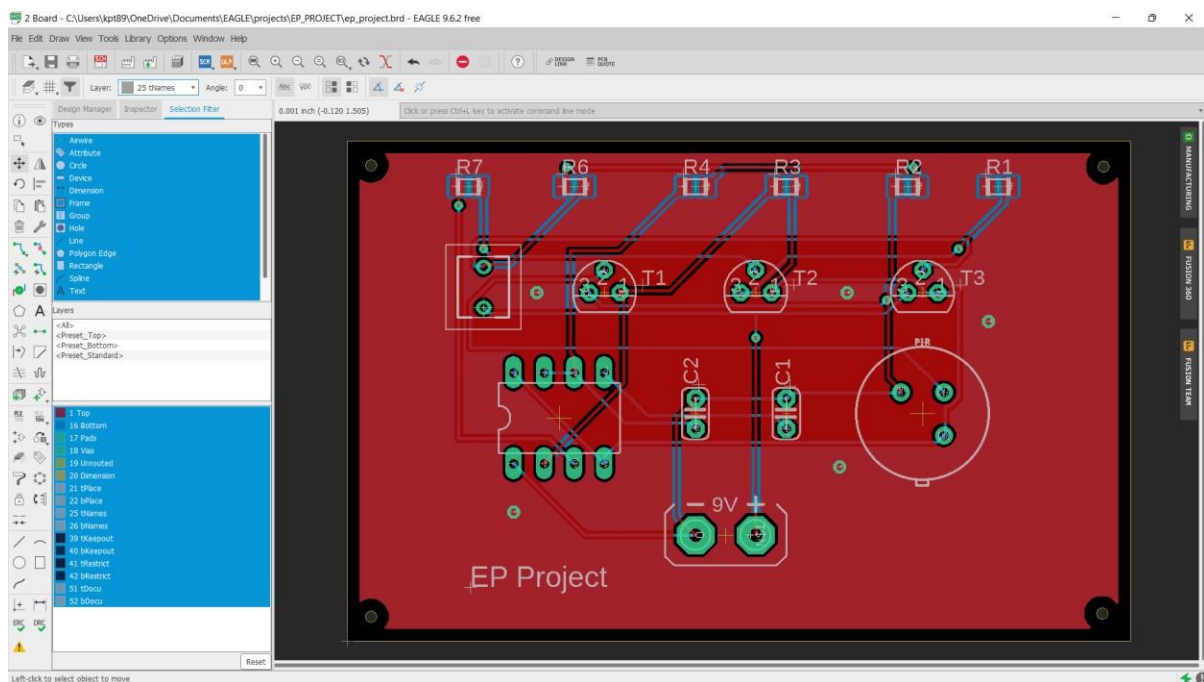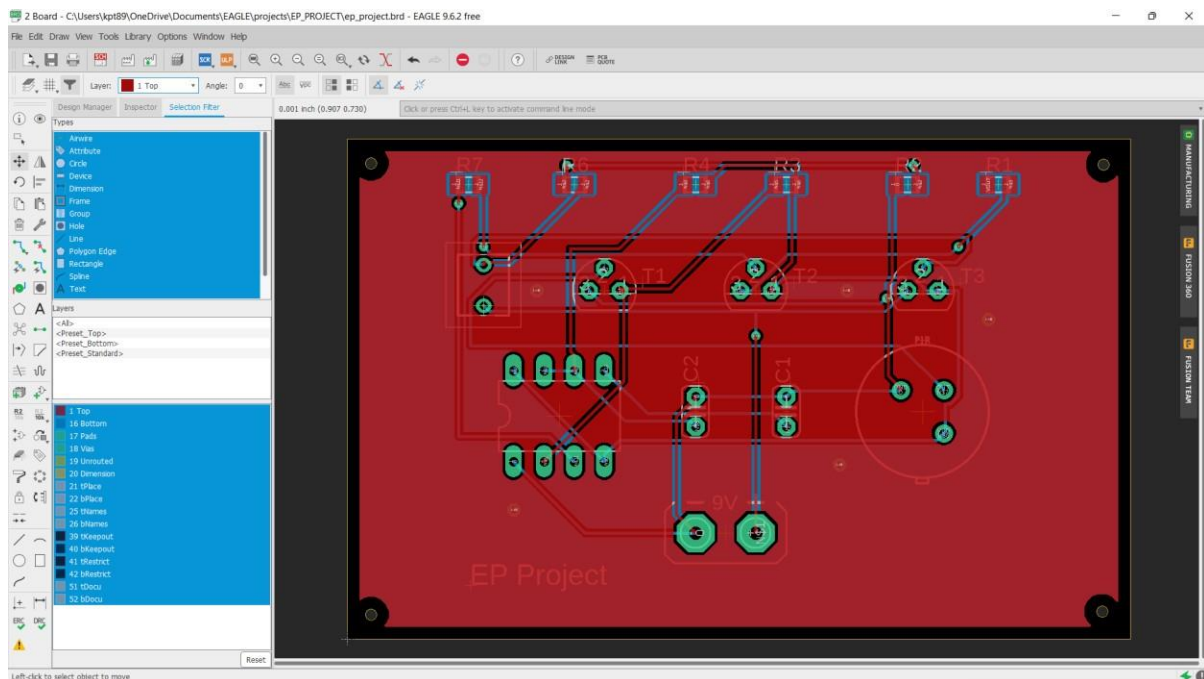
BOTTOM LAYER

Pad Layer:

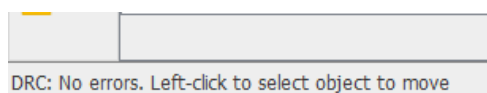Highlights the pads where Components are placed

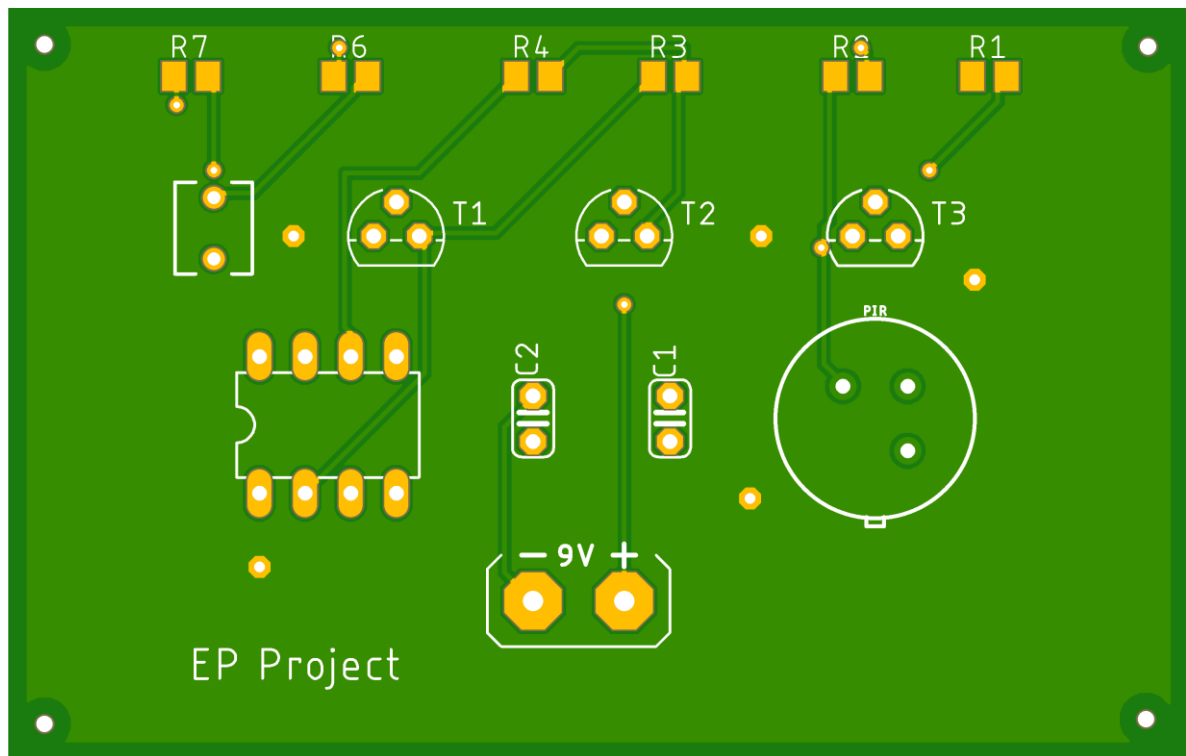## Auto-Router:

100% Optimized

DRC Check:

Design Rule Checking (DRC) verifies as to whether a specific design meets the constraints imposed by the process technology to be used for its manufacturing. Main Objective of DRC check is to achieve a high overall yield and reliability for the design.
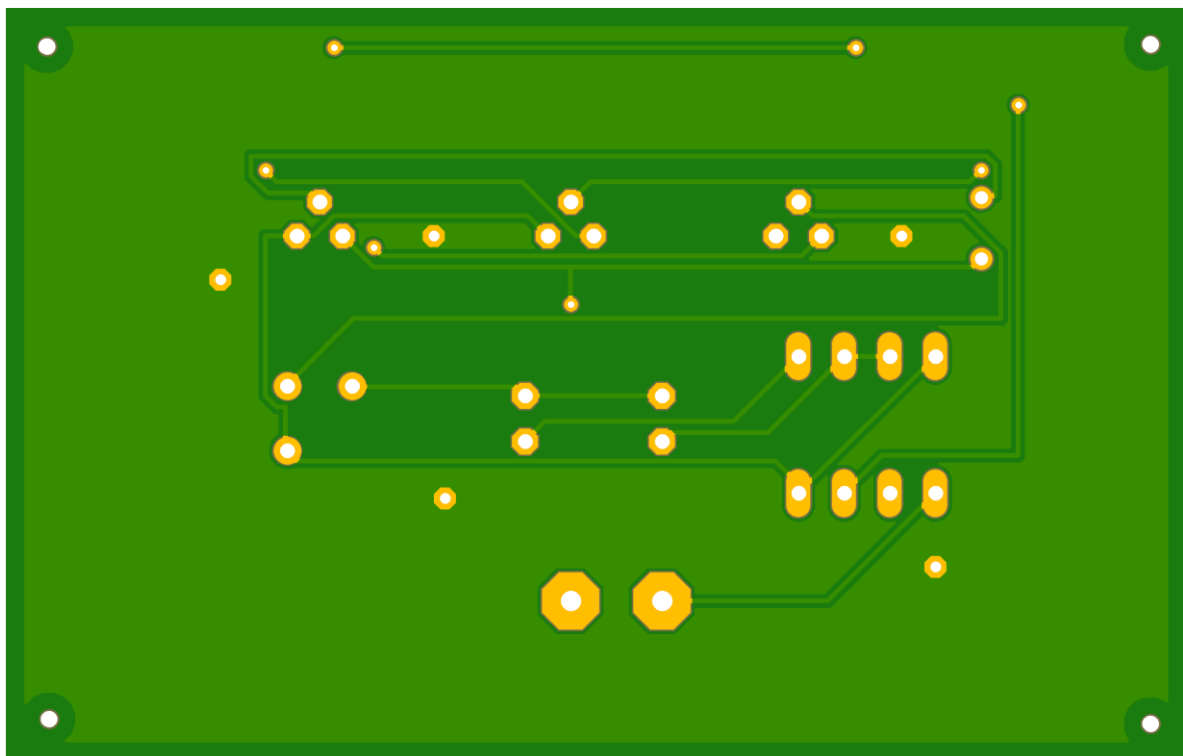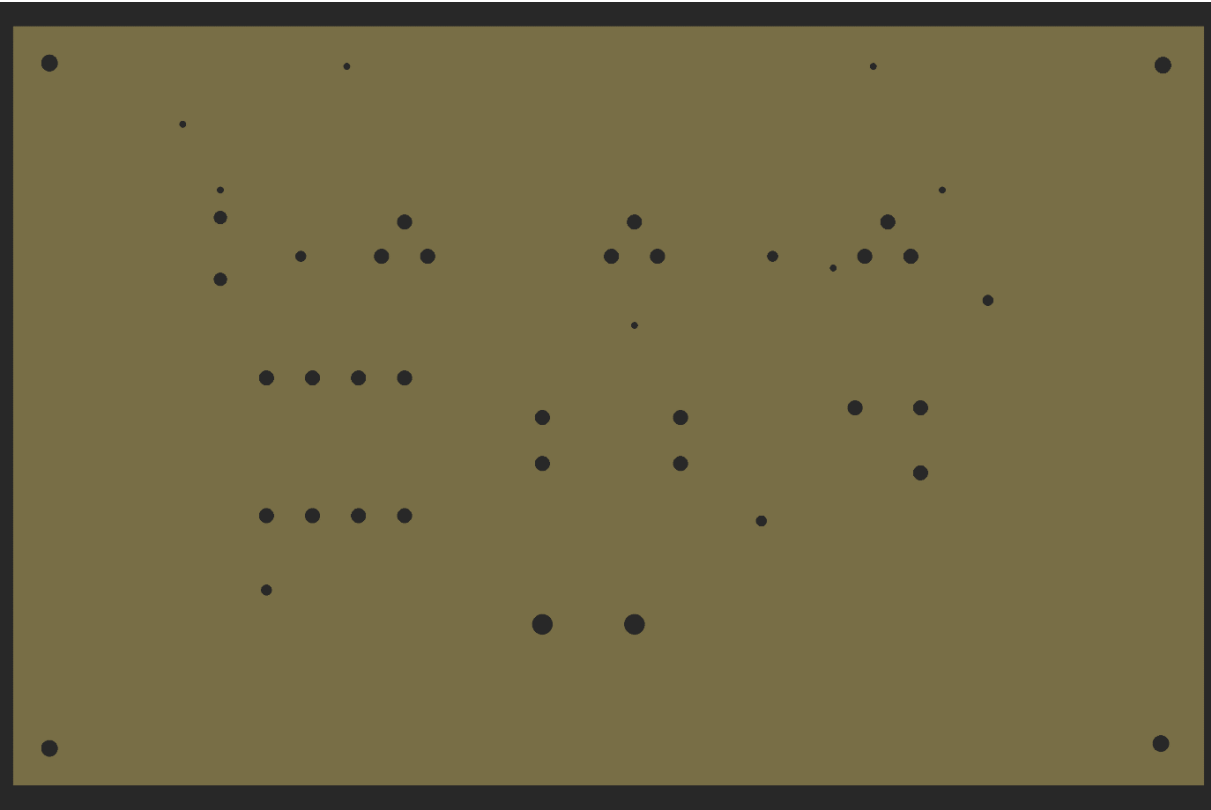
DRC Check Verified – No errors

DRC: No errors. Left-click to select object to move

DESIGNED PCB TOP VIEW

DESIGNED PCB BOTTOM VIEW

DRILLS ON DESIGNED PCB

Design Link Order List:

Contribution:

K Sreenivasulu Reddy (S20190020217)- Schematic Design, Gerber File, Report

K Venkata SeshaSai Pavan Teja (S20190020216)- Board Design, Libraries, PPT