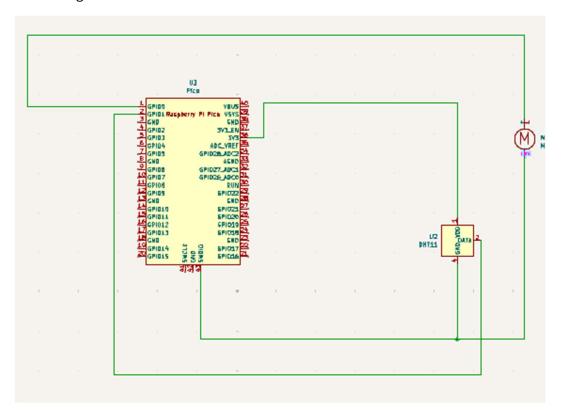
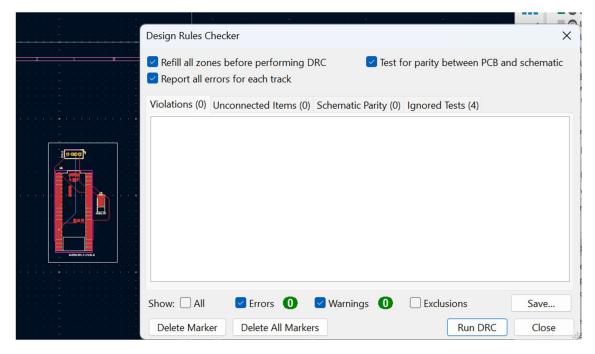
23_07_2024 Lab

Problem Statement

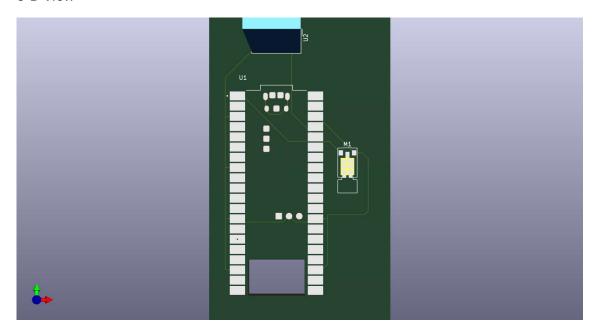
In residential and commercial buildings, bathroom ventilation fans play a crucial role maintaining indoor in quality and preventing moisture-related issues. However, traditional on/off switches for these lack efficiency automation, leading to potential problems such as energy wastage and inadequate ventilation. address То these challenges, there is a need for an intelligent Bathroom Ventilation Fan Controller that offers automated energy efficiency, and improved indoor air quality. The controller should integrate sensors and smart algorithms detect occupancy and humidity levels, automatically adjusting fan operation to optimize ventilation while minimizing energy consumption.

Block Diagram

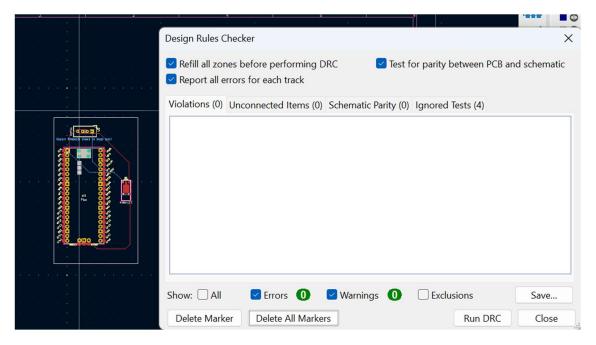




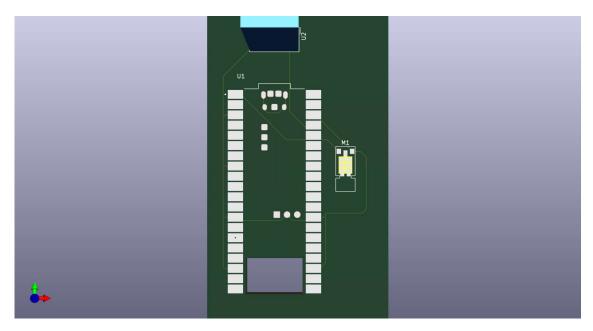
3-D View



Pico DRC



3D View



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