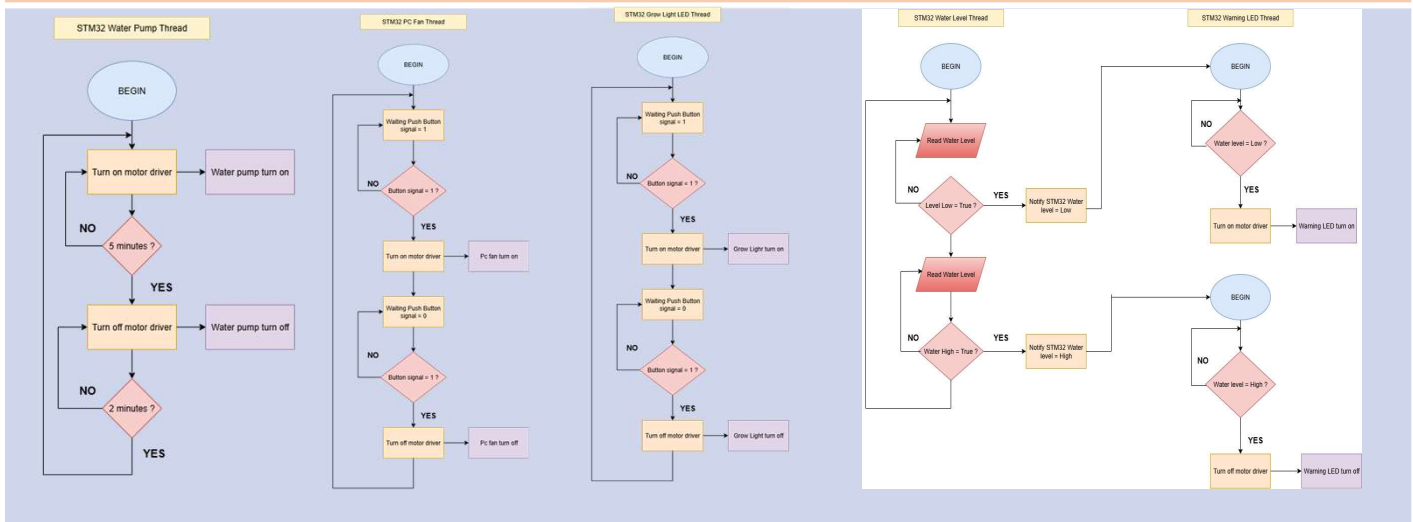


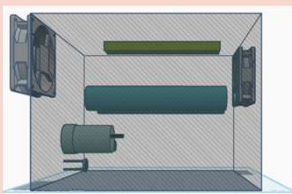
Introduction

This project builds a semi-automatic irrigation system. It integrates a water level sensor, a PC fan, a water pump, and a grow light LED. The STM32 reads the water level sensor data to determine if the water level is sufficient, and the water pump automatically irrigates the plants.

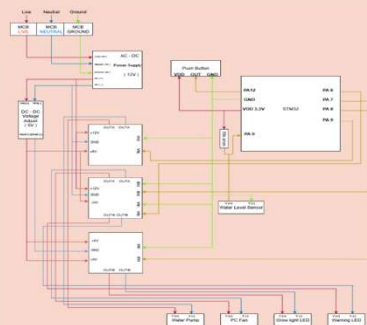
Flow chat



Conduct design



Wiring



SDG ELEMENT

- SDG 2: Zero Hunger
- SDG 6: Clean Water and Sanitation
- SDG 9: Industry, Innovation, and Infrastructure

Main idea

The STM32 controls the fan, water pump, grow light, and water level sensor, enabling a semi-automatic irrigation system.

Key Features

- The water pump automatically irrigates the plant.
- The fan and grow light are manually controlled.
- A water level sensor automatically monitors the water level.