

Tachyon 5.0



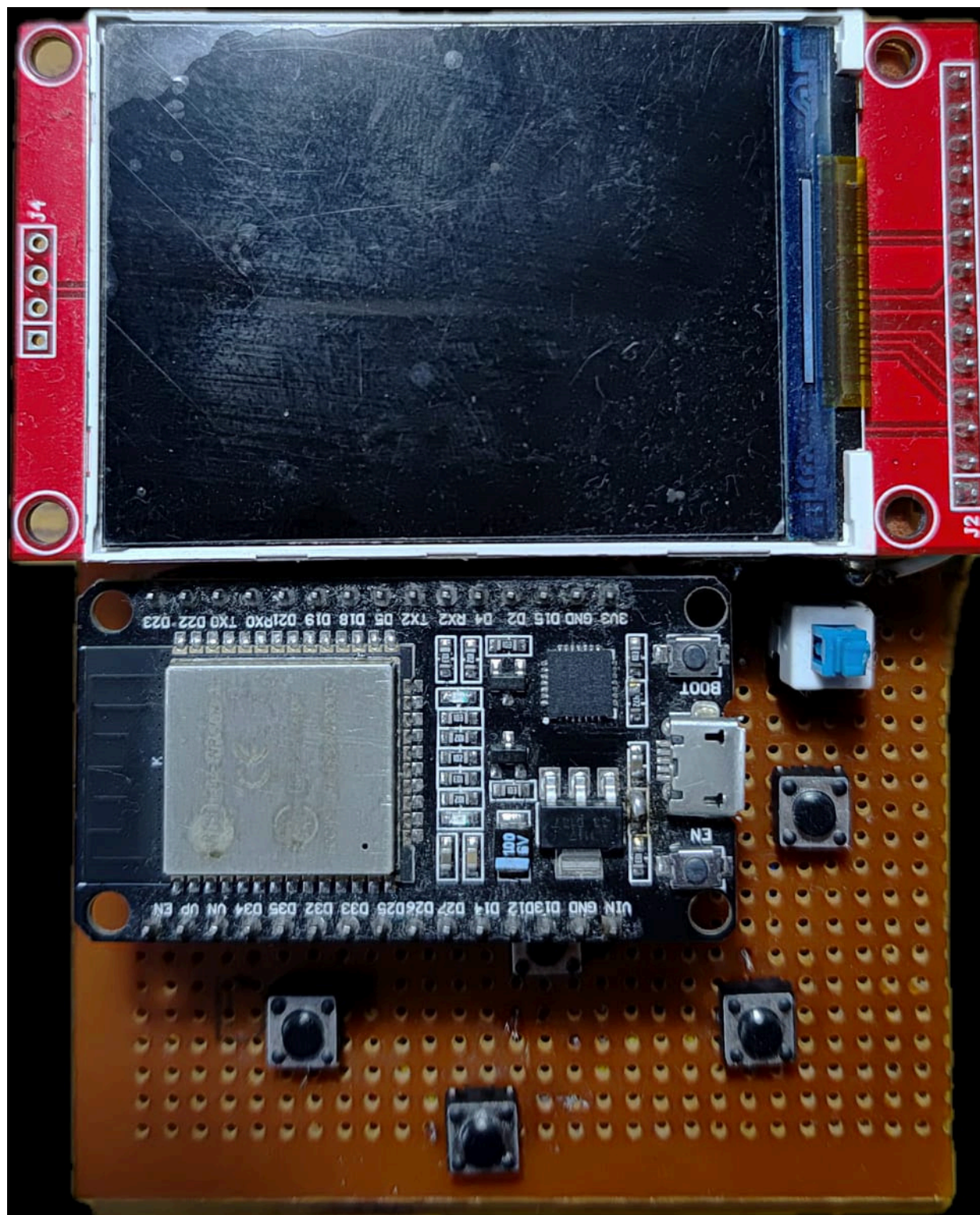
GameBoy

Name Samarjeet Slingh
Class,Dept. E.C.E 3rd

Index

- **GameBoy**
- **What Is GameBoy**
- **Our GameBoy**
- **Tetris**
- **Snake Game**
- **Schematic**

GameBoy



What is GameBoy

The Nintendo GameBoy is a classic handheld gaming console that was launched in 1989. It was known for its portability, long battery life, and a library of addictive games featuring popular Nintendo characters like Mario and Pokemon.

The GameBoy's success led to several iterations, including the GameBoy Color with Color Screen and GameBoy Advance with more Advanced Graphics.

Our GameBoy

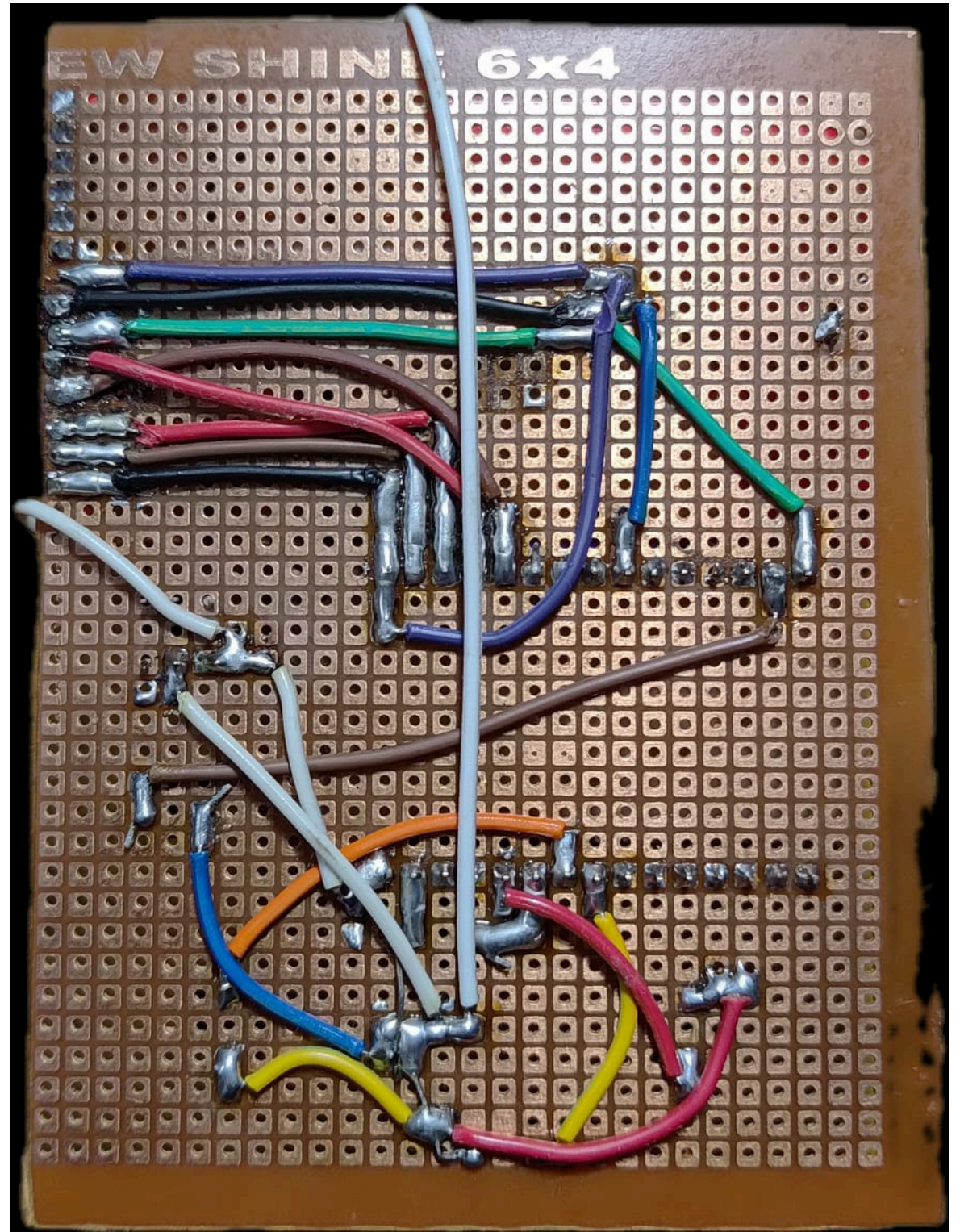
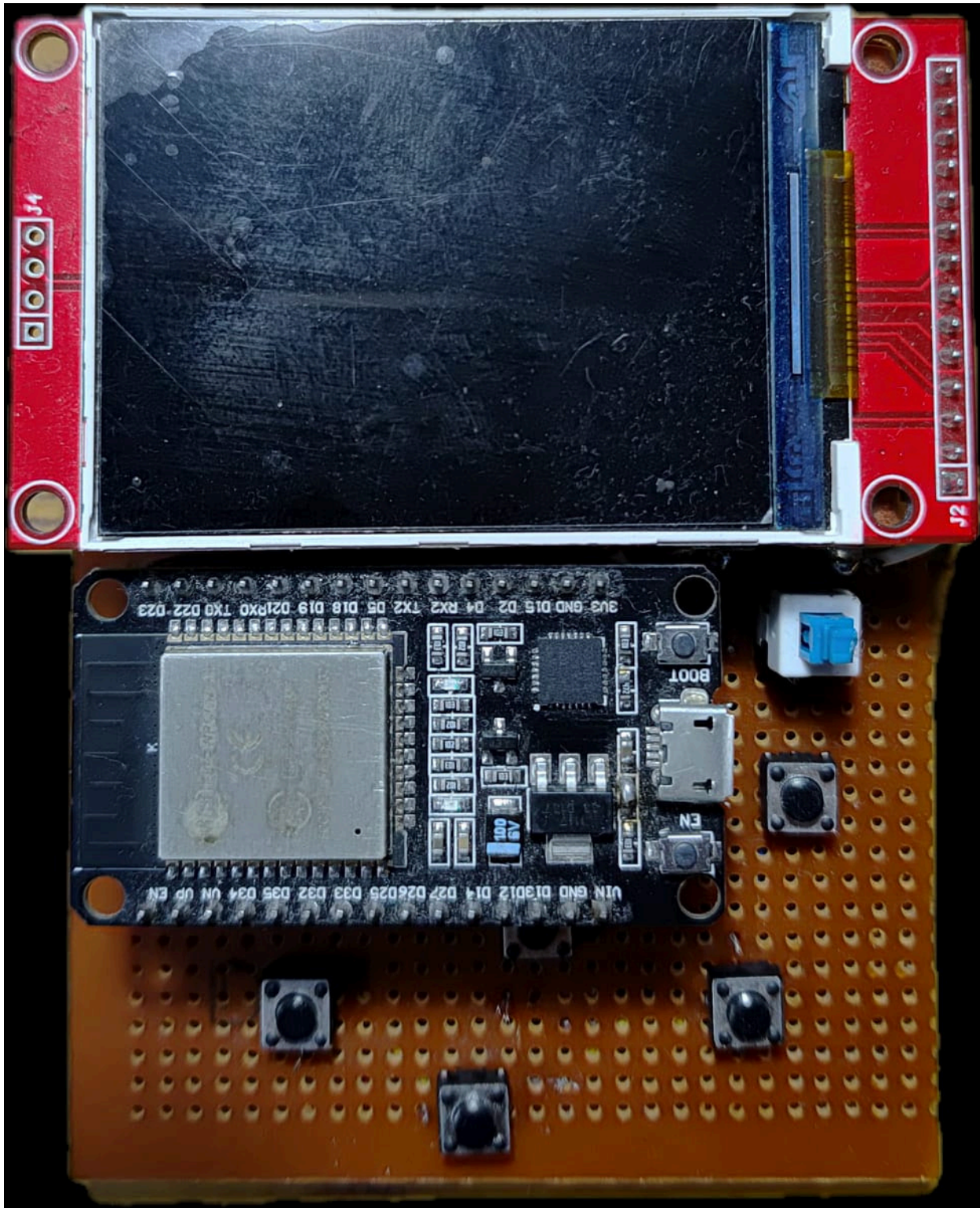
Our GameBoy's Design is very human. It is designed on the same principle as the original GameBoy that is accessible gaming for all. It Includes two Games: Tetris and Snake Game.

Components used in our GameBoy are listed below:

- **2.4 inch TFT SPI Display**: It is a colored tft display that also has touch functionality. It is where the games are viewed and played.

- **ESP32 Microcontroller**: The main brains behind the whole project. It comes with 2.4Ghz of wifi, 4mb RAM, 32Mbit flash memory and also supports BLE(Bluetooth Low Energy)
- **Battery Pack**: Series combination of 3xAAA cells powers this beast. Combine output voltage is 4.5v.
- **Buttons**: Buttons used in this project ranges from power button to game interaction buttons and game changing button.

Images



Tetris

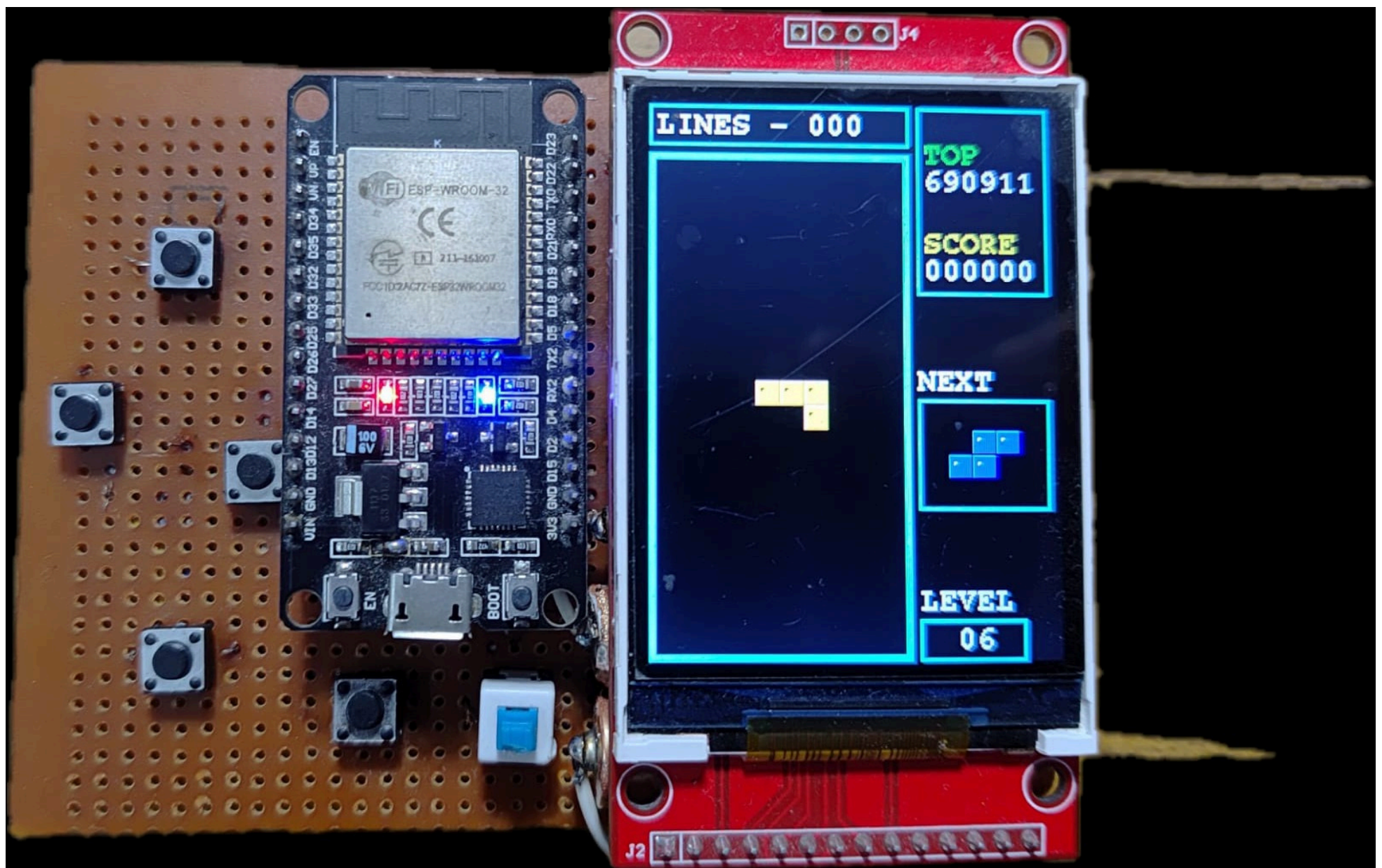
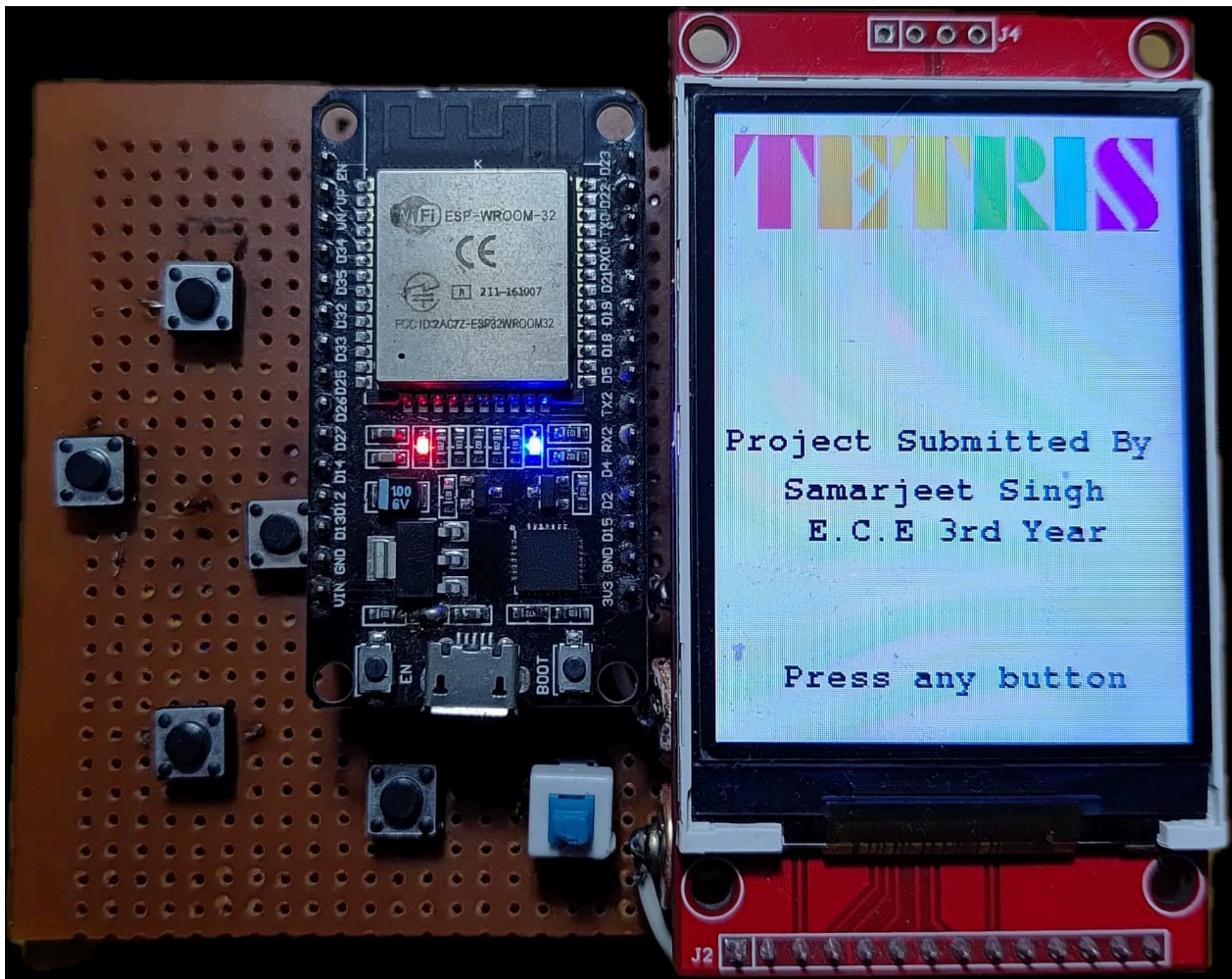
Tetris is a classic puzzle video game where geometric shapes called tetrominoes fall from the top of the screen. Players must rotate and move these shapes to create complete horizontal lines without any gaps. When a line is completed, it disappears, and the player earns points. The game speeds up as more lines are cleared, challenging players to think and react quickly. If the stack of tetrominoes reaches the top of the screen, the game ends.

Code

https://drive.google.com/drive/folders/1Qn6ikKcmPpRmC6kXAplUB2sUkf-sz9nM?usp=drive_linkTetris

The Link provided above redirects to the google drive where the entire code is provided

Images



Snake Game

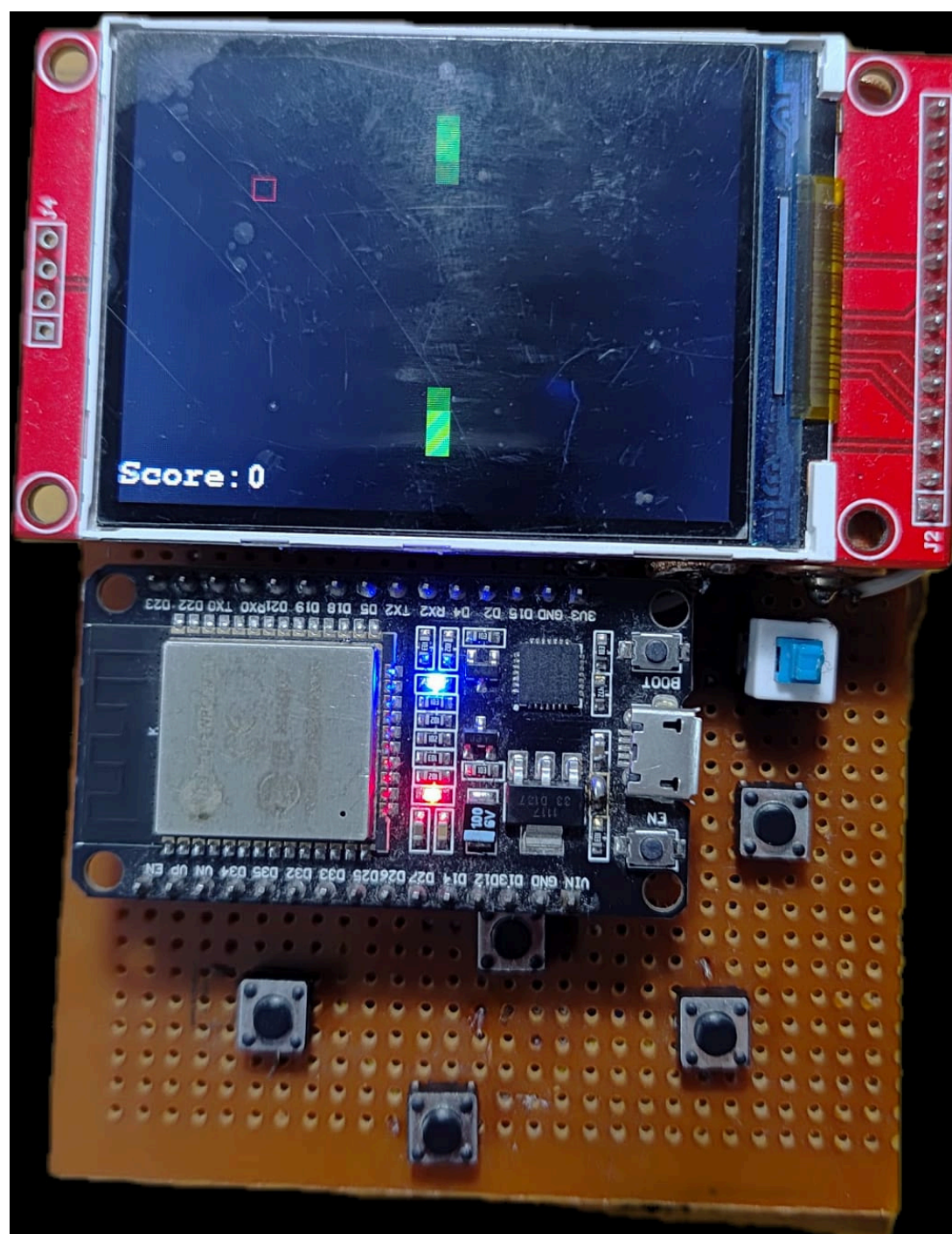
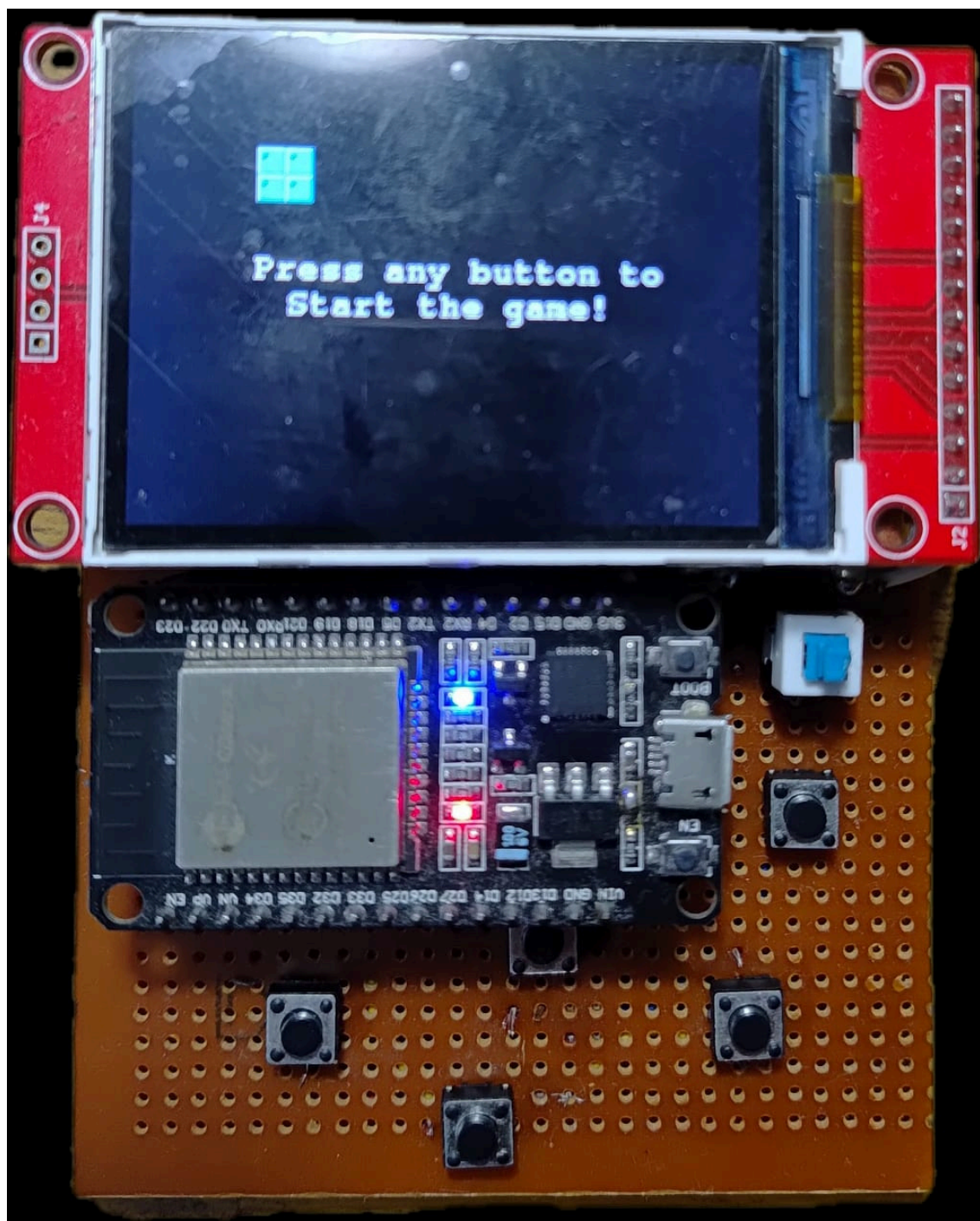
The Snake game is a classic arcade game where you control a snake that continuously moves around the screen. The objective is to eat food items that appear randomly, which makes the snake grow longer. As the snake gets longer, it becomes increasingly challenging to avoid running into itself. The game ends if the snake collides with any obstacles or itself. It's a simple yet addictive game that tests your reflexes and strategic thinking as you try to navigate the snake and maximize your score without crashing.

Code

https://drive.google.com/drive/folders/1Qn6ikKcmPpRmC6kXAplUB2sUkf-sz9nM?usp=drive_linkTetris

The Link provided above redirects to the google drive where the entire code is provided

Images



Schematic

