

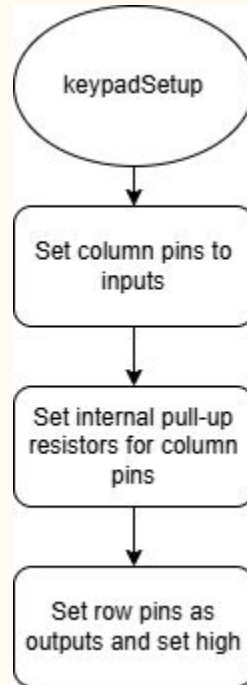
Parallax Keypad LED Control

By Dominick Valenti and Kellen Hurley

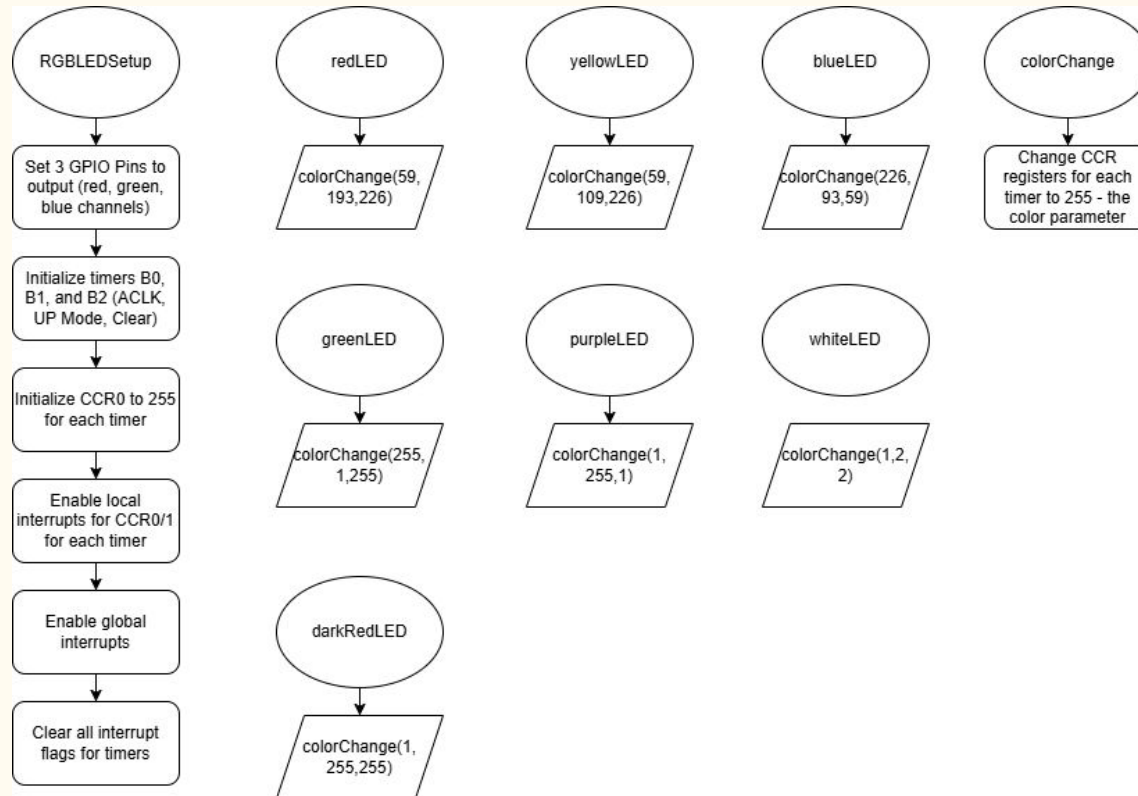
Purpose of Project

- This project's aim is to explore the use of a parallax membrane keyboard and how it interfaces with other peripherals
- It makes use of the keyboard itself, a PWM-controlled common anode RGB LED, and a simple LED bar
- The goal of this project is to have some number of set patterns to display on the LED bar that can be enabled and switched with the keypad, but only after the system is unlocked with the correct PIN

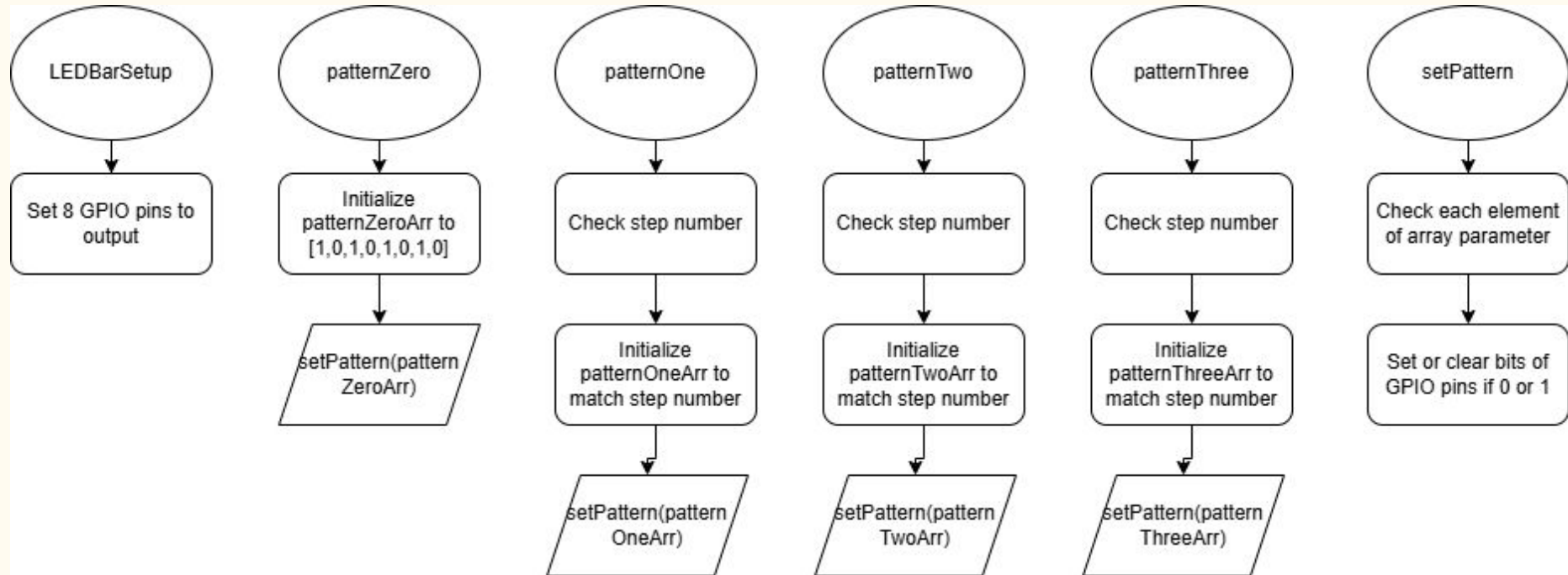
Keypad Flowchart



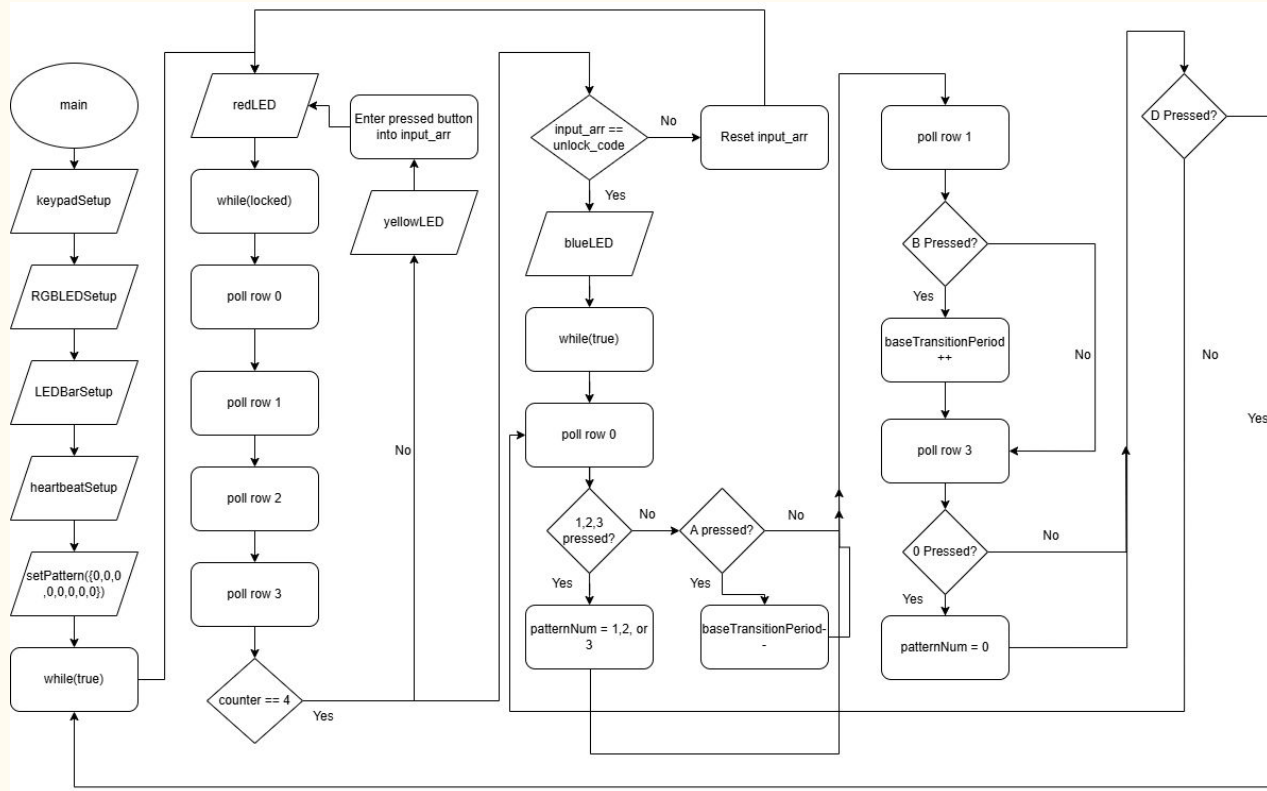
RGB LED Flow Diagram



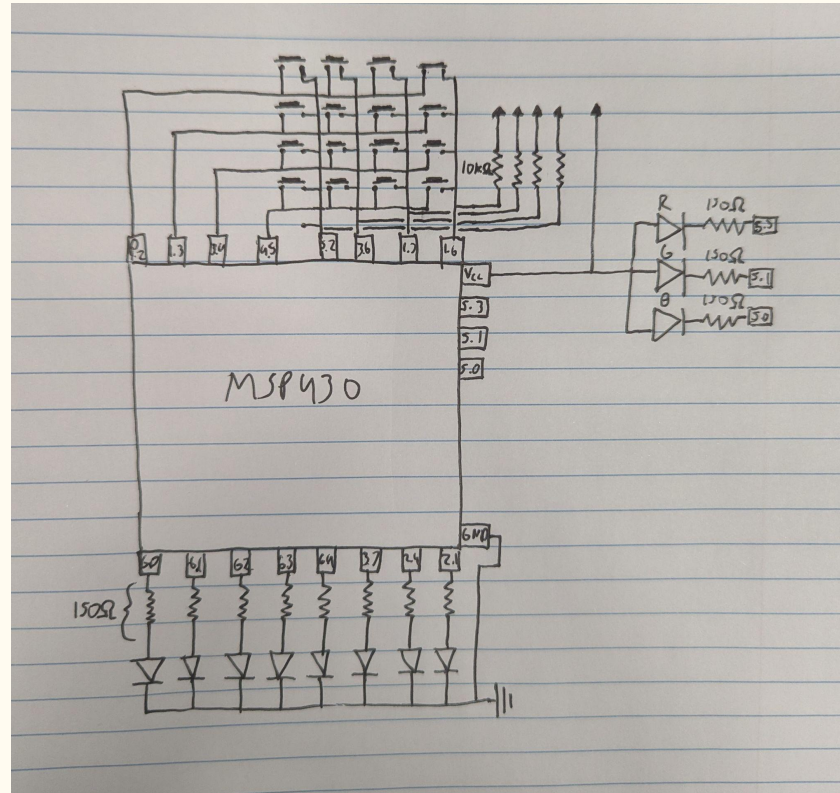
LED Light Bar Flow Diagram



Main Loop Flow Diagram



Circuit Diagram



Architecture Diagram

