

Sequential LED Blinker using VSD Squadron Mini

OVERVIEW

This project demonstrates a sequential LED blinking system using the **VSD Squadron Mini** development board based on the **CH32V003 RISC-V microcontroller**. The system controls **four LEDs** connected to GPIO pins. Each LED lights up for **2 seconds**, turns OFF for **2 seconds**, and then the next LED lights up — continuing in a repeating sequence. This project helps understand **GPIO control, timing delays**, and embedded programming concepts, making it an excellent beginner-level project.

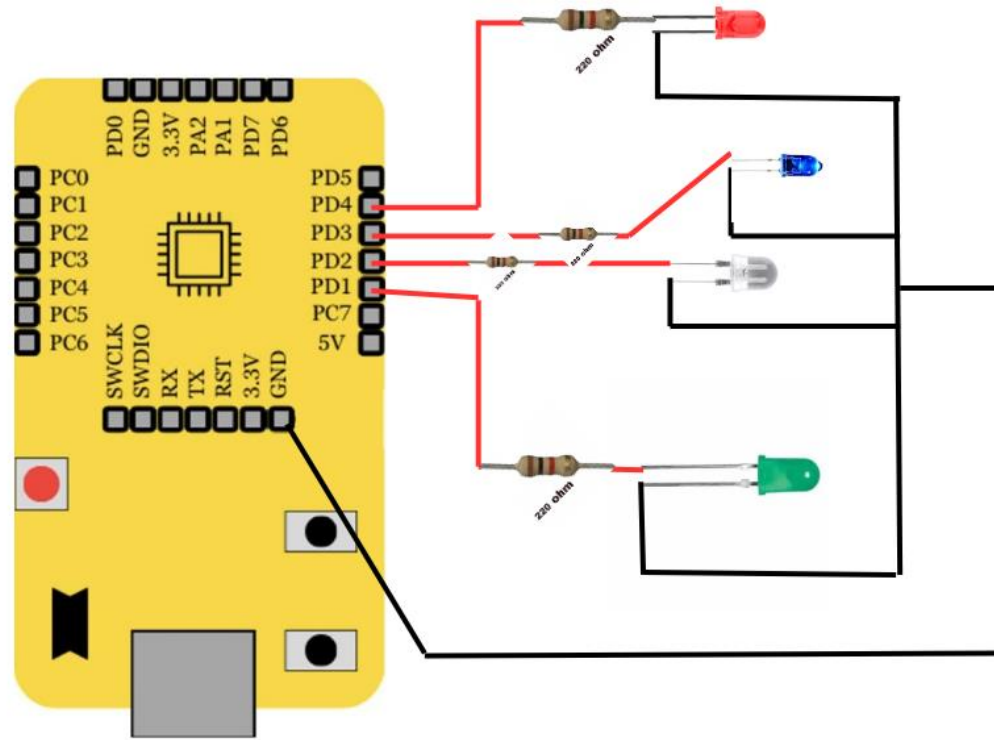
Components Used:

Component	Quantity
VSD Squadron Mini Board	1
LEDs (Any Color)	4
220 Ω Resistors	4
Breadboard	1
Jumper Wires	8+
USB Cable	1

Pin Connection Table:

VSD Squadron GPIO Pin	LED Color	Through Resistor	LED -ve
PD4	Red	220Ω	GND
PD1	Green	220Ω	GND
PD2	white	220Ω	GND
PD3	Blue	220Ω	GND

Circuit diagram



Pinout diagram

