

BlueStamp Engineering

Build Plan

Name: Divya D.

Location: Palo Alto

Instructor: Laura K.

Starter Project: RGB Night Light (#6)

Main Project: Video Game Emulator (#106)

Major Steps to Complete the Project

1. Make sure all the materials arrive as planned.
2. Download RetroPie software on the SD Card and insert into the Raspberry Pi.
3. Make sure that RetroPie is displaying on the monitor when connected to the Pi.
4. Configure a keyboard to practice configuring a controller and playing the games.
5. Choose some RetroPie ROM games that will be played in emulator, and download to RetroPie using SFTP. Be able to play them on the monitor using the keyboard. *~milestone~*
6. Drill and dremel holes for all buttons and joysticks on the project boxes. Also dremel out holes for the ports of the Raspberry Pi.
7. Plug in the wires to each button and joystick, and connect the other end to the relay board in the right order and ports.
8. Connect the relay board to the Pi, and make sure the buttons and joysticks produce a response in RetroPie. *~milestone~*

Potential Modifications

1. Customize the controller.
2. Program a custom game using pygame module.