Raspberry Pi Based Mainframe Simulator

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Chapter 1

Introduction

A rather simplistic view is that this provides a way to get a Raspberry Pi to blink some LEDs and read some switches.

Chapter 2

Hardware

With some modifications, this hardware could be repurposed for a number of other applications that require lots of discrete I/O, such as burglar alarms or sprinkler controls.

2.1 Electronics

2.2 3D Printed Parts

2.3 Other Hardware

Chapter 3

Software

3.1 Overview

3.2 Simulation

3.3 Web Server