

INTERACTIVE MODEL FOR THE RAILROAD MUSEUM

July 4th Meeting

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INTERACTIVE FEATURES

- Five Structures to focus on:
 - California Tower
 - Control the sound so that it chimes once an hour (simulate the real one)
 - Oregon Pavilion
 - Plays music that represents that of the building
 - Botanical Garden
 - Control the lightning
 - Trolley Terminal
 - Control the lightning
- Extra:
 - Live Feed Webcam on the train or the model

MP3 SHIELD

- Progress
 - 1. Ultra-SD card – all set up to input MP3 files and play it
 - 2. Library not too complicated.
Researched about other similar projects
- TO DO
 - 1. Must buy a header so it could stack on to the Arduino (needs to be solder on to the board)



ETHERNET

- PROGRESS
 - 1. Created a sample HTML page

https://8e8c687742d89531df83dbc0a4bfaefc17c53d42.googledrive.com/host/0B6_Ayl7YnEAIVVmQk9QanJZTzg/index.html

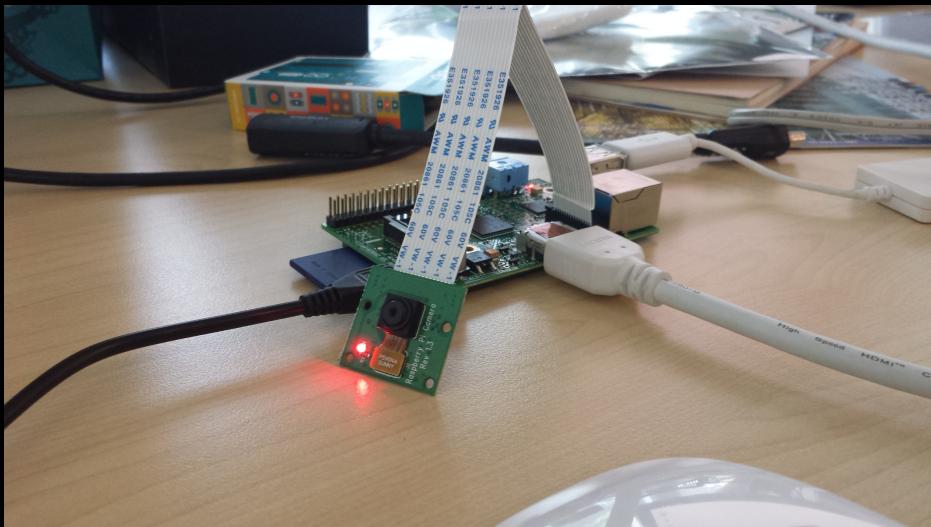
- 1. Created the base of the code
(can connect to google.com; not mine)

- To Do
 - 1. Can't connect to the google-hosted website I created
 - 2. DNS address and port forwarding (how to access the router)



RASPBERRY PI

- Got it streaming
 - but, quality is low and the lag is bad
 - May have to use another camera?
- Look at other methods
 - Got it to film without lag but with a couple second delays
 - Real-time can't be stream
- TO DO:
 - Have to Port forwarding to access the camera from any website (need to access router in order to do so)
 - Set up makes it hard to put it on the train (bulky & wires)



EXAMPLE OF STREAM

a ressource friendly streaming application

Home
Static
Stream
Java
Javascript
VideoLAN
Control

Version info:
v0.1 (Okt 22, 2007)

Display the stream

Hints

This example shows a stream. It works with a few browsers like Firefox for example. To see a simple example click [here](#). You may have to reload this page by pressing F5 one or more times.

Source snippet

```

```





CULTURAL EXPLORATION

