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CIS 191 Project Proposal - Group 08
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Project Idea

The idea for the project is to use the raspberry pi to make taking pictures (with a DSLR) and putting them on the internet much more efficient. The goal would be to plug the camera into the raspberry pi with a usb cable with the Raspberry PI connected to a monitor. The PI could have two modes, one that automatically uploads a picture when it is taken and one that provides some basic editing options through the command line or through a program when a picture is taken. The pictures could be put on Eniac storage, or if we are feeling ambitious, Google Drive.

Inspiration for the Idea

http://www.davidhunt.ie/raspberry-pi-in-a-dslr-camera/

Why It's Difficult

We think it's difficult because we are going to be interfacing with a device and filesystem we have not explored all that much. The camera may have a system for signaling when a picture is taken, but if it does not, creating a system for determining when new pictures are taken would also be difficult. There is a very broad area that we are covering with this project: examining a filesystem, editing and opening files, dealing with user input and utilizing ethernet or wireless to send files to a remote server. Also, these files will be pictures, they are not just plain text files. Lastly, connecting to an online service from Google, Dropbox, or Facebook using their API would be fairly difficult and new to us.

Group Members

We are *group 08* on canvas and our group members are: Justin MacIntosh, Alex Harelick.

Plan of Action with a General Idea for a Timeline

- Determine if a picture has been taken (camera signals)
- Find a way to get images off the camera into the PI
- Manipulate images, store them automatically when a picture is taken
- Use sites like Dropbox/Facebook or scp into Eniac