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CSE467 Embedded System Final Project Proposal

Title: Motion Pi

Summary

Recording who has visited our house only when there is movement through the motion sensor!

Why am I doing this?

Me and my family moved from Korea to St. Louis 3 months ago. One of the cultural differences between Korea and the United States is that in Korea, people take off their shoes when entering a house. However, the front door of an American house is not suitable for taking off shoes. So, we do not use the front door but live through the door in the garage. The problem, however, is that postal or courier drivers are knocking on the front door. Every time that happens, my wife is surprised. To reassure her of her, I'm going to do a project to record video by recognizing who has come.

Materials for this project include

A Raspberry Pi

Raspberry Pi Camera Module

PIR motion sensor

3 or more female-to-female jumper wires

Several LED and resistor(For debugging purpose)

* subject to change a little bit

Final Result

A motion sensor connected to the Pi detects human movement and records a video only when there is movement. This will prevent excessive footage from being stored and you won't have to watch videos you don't need to watch.