

Spike Plan

Name: Adjustable PIR Passive Infra Red Motion Detector Module HCSR501 usage and suitability.

Context:

The sensor has a possible use in the shower sensor project because it is cheap and could be used as a part in the process of determining if whilst the shower is running, there is someone using it. The sensor was bought from <http://tronixlabs.com/sensors/motion/adjustable-pir-passive-infra-red-motion-detector-module-hcsr501/>

Knowledge Gap: Does the sensor perform as expected (sense movement within the shower area).

Skill Gap: How to use the sensor.

Technology Gap: Is the sensor appropriate technology for this job.

Goals/Deliverables:

1. Guide on connecting the sensor.
2. Outcome report on how sensor works.
3. Test of sensitivity and appropriateness for the job as shower sensor.

Planned start date: 09/04/2015

Deadline: 10/04/2015

Planning notes:

1. Design circuit for breadboard that integrates the sensor.
2. Verify sensor works as expected.
3. Test and document different range and sensitivity values.
4. Tabulate best settings for various sizes (as showers are different sizes).