

Lab report week 1

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1 Progress

1.1 OpenHAB2 installation

- Instructions from [//docs.openhab.org/installation/linux.html#changing-versions](https://docs.openhab.org/installation/linux.html#changing-versions)
- OpenHAB address: 143.129.37.79:8080

1.2 PiCamera

- Take a picture every 3 seconds
 - `~/ambient/camera.py`
- Put the picture in the correct folder, so that OpenHAB2 can access it
- Refer to picture in the OpenHAB sitemap
 - `/etc/openhab2/sitemaps/teammmmd.sitemap`

1.3 MEMS sensor

- On Raspberry Pi as reference, later also on Gecko
- Driver scripts in python, not yet working
 - http://git.oschina.net/embest/rpi_sensor_board

1.4 OpenCV

- Instructions from <http://www.pyimagesearch.com/2016/04/18/install-guide-raspberry-pi-3>
- Not finished! Stopped with errors on 'make -j4' in step 5

2 Planning

- Get MEMS sensor board working on Raspberry Pi 3
- Add MEMS sensor data to openHAB
- Get OpenCV working with camera

3 Extra info

- Raspberry Pi address: 143.129.37.79