

# EE M202A Group Assignment Fall 2014

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## Functionality Requirement: Time-Synchronization

1) mbed time display

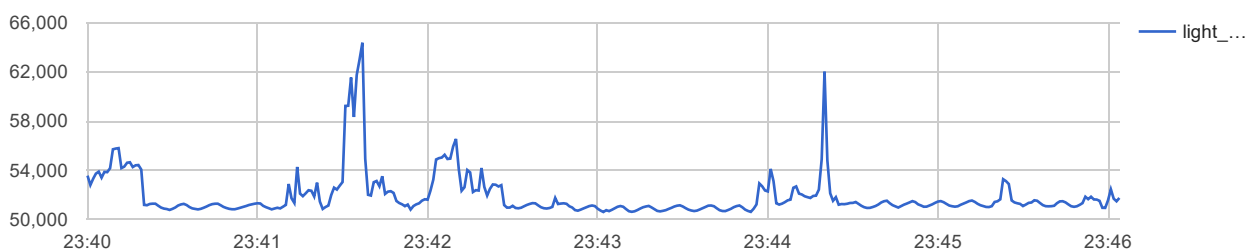
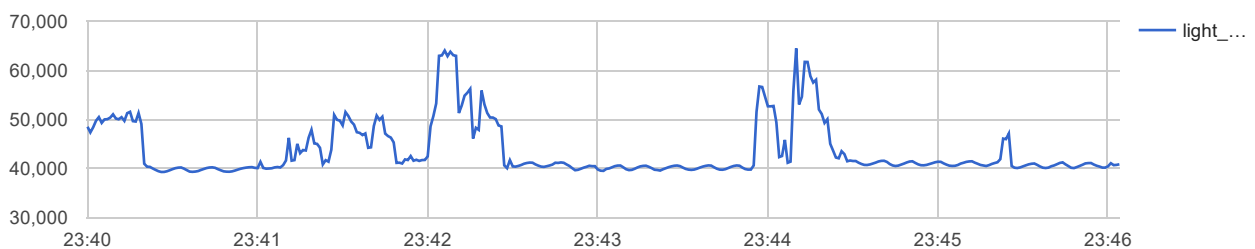
2) mbed periodic signal (PTA12)

## Functionality Requirement: Sensing

1) 0-1 Events (PTA4)

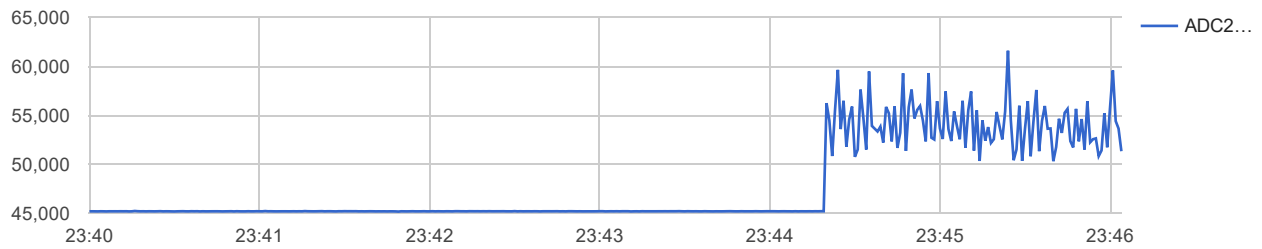
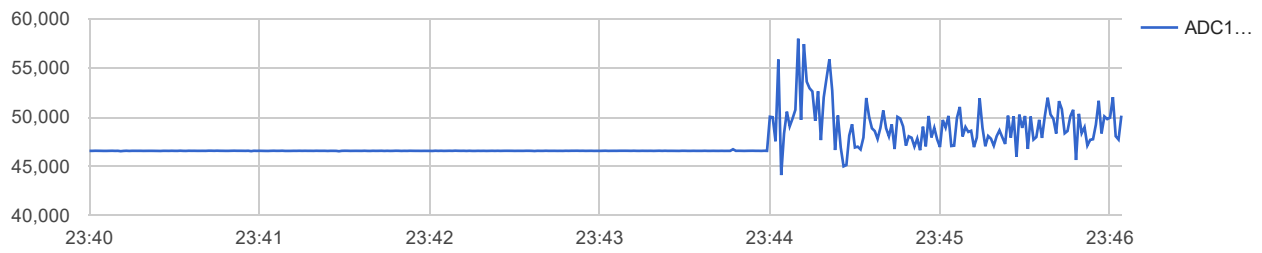
Time Stamp 1	
1	
2	1,418,946,054,588,421
3	1,418,946,070,687,003
4	1,418,946,159,737,000
5	1,418,946,160,999,887,768
6	1,418,946,164,999,534
7	1,418,946,171,000,118
8	1,418,946,173,000,143,768
9	1,418,946,174,000,143,768
10	1,418,946,187,100,000
Time Stamp 2	
1	0
2	1,418,946,054,636,959
3	1,418,946,070,686,897
4	1,418,946,159,737,166

2) Light Sensor (PTE22)



3) ADC Channel #0 Sampling Control (PTB0)

1 Hz ▾



## Functionality Requirement: Actuation

### 1) Digital Output Pin/LED Toggle (PTD3)

ON

### 2) Analog Output Pin Controller (PTE30)

1 Hz ▾

ON



**freescall<sup>TM</sup>**  
**FRDM-KL46Z**

**Arduino Headers**

