Lab 1  
CMPE118, Fall 2014

Turn in this sheet with your Lab Write Up. One Lab Write up per partnership. You will find the lab instructions on the class webpage: [classes.soe.ucsc.edu/cmpe118/Fall14/TheHallway.html](classes.soe.ucsc.edu/cmpe118/Fall14/TheHallway.html)

## 1 Schedule and Contact Info

Choose a partner and submit your choice to: [http://tinyurl.com/lab1Partner](http://tinyurl.com/lab1Partner) Please fill your schedule with your partner in the calendar and proposed tasks. Class averages 35 hours per person a lab so schedule accordingly.
Write actual Time spent below the scheduled task, preferably in a different color.

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<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
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<td>Pre-Lab 1</td>
<td>Due in class</td>
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Your Name: ___________________________  Partner’s Name: ___________________________
Your Email: ___________________________  Partner’s Email: ___________________________
Your Phone #: _________________________  Partner’s Phone #: _________________________
Lab 1 Turn-In Requirements

2 Check Offs

Part 1: Circuit Modules Checked: Tutor/TA Signature:  
Randomly picked modules perform as expected. Scope traces available from others.

Part 2: Track Wire Sensor Check: Tutor/TA Signature:  
Track wire sensor meets requirements.

Part 3: Beacon Detector Circuit Check: Tutor/TA Signature:  
Detector meets the requirements (works in dark and light at near distances and far).

3 Pre-Lab Due Tuesday October 14th in class

Part A: Answers to Questions  
Part 1: Describe or draw the behavior expected of each module  
Part 2: A block diagram showing how the modules from Part 1 should be connected with explanation  
Part 3: A block diagram of the circuit, a description, sketch of intended behavior, and a circuit diagram (with values for everything but amplifiers).

4 Lab Write-Up Due Monday October 20th 6pm

Make sure to include Intro, Methodology, Results, and Conclusion sessions.  
We expect insightful and succinct papers (5-10 pages). Write as if to inform another peer.

Mandatory Attachments  
Part 1: Pictures of modules (6), scope traces (5+)
Part 2: Picture of your circuit, final schematic  
Part 3: Pictures of your circuit, final schematic, and necessary scope traces  
Part 4: Proof of order from TI and Microchip

Partner Evaluation: Submit through http://tinyurl.com/Lab1PartnerEval