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 30 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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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: Signal Source Check: Tutor/TA Signature: 
Show off circuit and scope trace

Part 2: Photo Transistor Check: Tutor/TA Signature: 
Show off one of last two circuits and explain the answers to 2.7 and 2.9

Part 3: Op-Amps Check: Tutor/TA Signature: 
Show off your trans-resistive circuit and scope trace

Part 4: Comparators Check: Tutor/TA Signature: 
Show off your comparator circuit and scope trace

Part 5: Beacon Detector Check: Tutor/TA Signature: 
Show off your beacon detector range and scope traces

3 Pre-Lab Due Monday October 7th 6pm

Pre-lab Questions
Schematic for 4.2
Schematic for 5.2

4 Lab Write-Up Due Monday October 14th 6pm

Make sure to include Intro, Methodology, Results, and Conclusion sessions. We appreciate insightful and succinct reports.

Mandatory Attachments
Pictures (6): Picture of each of your 6 circuits
Schematics (5): Sourcing Configuration, Sinking Configuration, Trans-Resistive Configuration, Comparator with inverting configuration with hysteresis, Beacon Detector
Scope Outputs (10): Pin 3 from part 1, Sourcing Configuration with 100K and 1K, Sinking Configuration, Trans-resistive configuration, Comparator in an inverting configuration with hysteresis, Beacon at various distances (6”, 1ft, 2ft, 5ft, 10ft)
Part 6 Receipt

Questions Answered In line
Part 2: Answers to questions 2.7 and 2.9
Part 3: Answers to questions 3.4 and 3.5
Part 3: Explanation of what you see and the full range of your beacon detector

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