Taking the 3pi to Mars

EEE499 Lab 1023

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# Introduction

Your lab report must begin with an introduction, explaining the aim of the lab in one paragraph. This is a summary of the instructions in the lab, stated in *your own words*. Do not copy from the lab instructions. (Use the “Heading 1” quick style for top level headings, like “Introduction” above. Use the “Normal” quick style for regular paragraphs.)

# Discussion

This section normally constitutes the longest part of the lab report. Here you discuss *what* you did, and *why* you did it. The emphasis is on the *why*; this is your chance to communicate and explain your design and the process by which you arrived at it.

You should take the opportunity to discuss the problems you encountered and to detail how you overcame them. Should you choose to include code snippets, format them as below (10 point Consolas, or use the “Code” quick style).

if (good\_things\_happened(this\_lab)) {

 report\_easy();

} else {

 report\_hard();

}

You may also include diagrams where these would be helpful.

Be concise. Lab reports for simple labs will be short.

## Subsections

For more complicated labs, you may want to divide the discussion in subsections, one for each major part of the lab, or one for each major design decision you were required to make. (Use the “Heading 2” quick style for subsection headings.)

# Questions

If the lab handout includes questions, answer them here. Copy the questions from the lab handout and format them using the “Question” quick style. Format your answer using the “Answer” quick style.

1. How many roads must a man walk down, before you can call him a man?

The answer, my friend, is blowing in the wind. The answer is blowing in the wind.

1. What is the airspeed of an un-laden swallow?

Would that be an African swallow or a European Swallow?

Answer questions carefully. Avoid one-word answers; explain. Also avoid shotgun answers, where you write down everything you can think of, hoping that something will hit. Be clear and specific.

# Conclusions

What did you learn in the lab? Why was that important? Just like the introduction, this section must be short – one or two paragraphs. You may comment on what you liked and disliked about the lab, but such comments are not required.

# References

If you used a reference, list it here. If someone helped you with the lab, this is where you give them credit. (Remember, giving someone else a copy of your solution, or using someone else’s solution directly in your work, constitutes academic misconduct, so don’t.) Two examples of references are below. (Use the “Reference” quick style.)

1. Pololu, Inc. *Pololu AVR Library Command Reference.* Available from <https://www.pololu.com/docs/0J18>. Accessed 15 September 2015
2. Forouzan & Gilberg. *Computer Science – A Structured Programming Approach Using C.* 3rd Edition, Thompson, 2007

# Source Code

Most labs will require you to attach your source code to the lab report. Print the code following the “Printing your code from Eclipse” instructions on the course web site, and staple the pages after your References section. Eclipse will put the file name at the top of each page and give a page number on the bottom; you do not need to modify the Eclipse printout in any way.