**Final Project Report:**

Write a Final Project Report Due by April 26th. The report must include:

* Title Page: Includes, Title, Date, Author, Course name.
* Executive Summary: This is a summary of the entire report should be less than one page long. (Write it last).
* Table of Contents:
* Introduction:
  + Introduce the project and discuss the motivation for it i.e. why is it needed.
  + Introduce background information about the project
  + Mention if similar projects where done before and how these other projects are different
  + Write a brief description of the following sections of the report (Circuit Design, Final schematic e.t.c.).
* Functional Description: Illustrate the circuit at the functional level in words and using block diagrams. Also list all inputs and outputs of the design and temperature and power tolerances. Backup your specifications with Information from datasheets.
* Circuit Design: Include all technical information here. Key I.C.s used in the design. Discussion of the circuit design and choices made in the design process. Describe in detail the design of each block of your design i.e. power supply circuit, Motor Driver circuit, sensors circuit, XBEE circuit e.t.c.
* Based on information in the data sheets include a “Absolute Maximum Ratings” section.
* Create a section on how a ‘user’ can use the project i.e. a brief “user manual”.
* Proposed Circuit Diagram
* Proposed Bill of Materials
* Approximate Timeline. Create a Timeline for yourself. E.g. By Week x I finished blah blah blah...
  + Use a table or Gant Chart
  + Mention which parts of this timeline have been completed and which parts are yet to be done.
* Conclusion:
  + Finally, discuss your experience
  + Mention whether the project met your expectations or not.
  + Mention the biggest challenges that you experienced and how you overcame them.
  + If you had more time what sections of your project would you have implemented differently?
* References: Include all references that you have used and cited in your report.
* Appendices: Include any other big items here.

**All pages of the report must have page numbers except the title page. All Figures and Tables must have correctly numbered captions (right click on figure/table and click on Insert Caption). The captions for figures go underneath the figure. The captions for tables go above the table.**