



Department of Electrical and Computer Engineering
University of Maryland at College Park
ENEE 445: Computer Laboratory
Fall 1999, Prof. D. Stewart / J. Ganssle

Lab #1, Your First Embedded Program

Pre-Lab Report Details

Your pre-lab report must include the following sections. The report should be a maximum of three pages in length, using an **11-pt font** and **1.5 line spacing**.

1. Objective

(You can include these words verbatim). The purpose of this lab is to write, compile, link, download, execute, and debug a simple program on the MC68HC912B32 (6812) evaluation board. This first program will be given to us at lab time.

2. Hardware Components needed for this lab

Write 1 paragraph that describes the hardware will you use for the lab.

3. Software Components needed for this lab

Write 1 paragraph that describes the specific software components that you will use for the lab.

4. Technical Overview

Describe each of the following in one to two paragraphs:

- (a) The 6812 memory map.
- (b) Difference between code that executes on the PC vs code that executes on 6812.
Where does the debugger execute?
- (c) Procedure to go from C source code to executing program on 6812
- (d) Purpose of Project File and Makefile in Hiware

5. Questions to Answer

List at least five questions that you expect to answer (or have answered) during the lab.

As per the instructions given in the Course Information sheet on the first day of class, the pre-lab report must be typed, and any diagrams must be drawn using an electronic drawing tool. Submit the pre-lab report as a hard copy at the beginning of your lab session.

Requirements for your Lab 1 report will be handed out during your lab on Sept 15 or 16.