

EE2905 Lab 1: Introduction to Hardware and Software

Objectives

- Review lab expectations
- Hardware and Software Tool setup and verification
- Step through process flow

Prelab **MUST BE COMPLETE BEFORE COMING TO LAB 1**

student
check off

- Pick up the EE2905 hardware kit from the tech center
- Assemble the Nucleo development board
On the **Lab** web page: [Nucleo Hardware Setup](#)
- Mbed / Keil Studio account setup
On the **Lab** web page: [Mbed / Keil Studio Account Setup](#)
- Install the MS Visual Studio software tools
On the **Class Notes** page: [Visual Studio Installation](#)

Assignment

- **Do not start the assignment portion of the lab before the lab class. We will walk through the first part of the lab.**
 - 1) [Windows Driver Update](#)
 - 2) [Nucleo Firmware Update](#)
 - 3) [Mbed Project Setup](#)
 - 4) [TeraTerm Terminal Setup](#)

Part 1: Modify the “my_blink” program from the beginning of the lab to alter the flash pattern of the LED and console display. The new pattern should be on for 3 sec and off for 1 sec.

Part 2: Work through the [Visual Studio Project Setup](#) and [Running Visual Studio Code](#) slides on the Class Notes web page. Modify the “MyCode.c” program to say “!! Hello Dr. Johnson from abc !!”, where abc is your name.

Check Off (in Lab or via Teams chat)

- Demo your modified my_blink program 50%
- Demo your modified MyCode.c program 50%

Checkoff due by beginning of Lab 2 class (in-person or via Teams chat)