

## **Rules and Policies – Practical Quiz:**

- *This assignment instructs the student to implement and demonstrate (to a course staff member) a working computing application. A “working” computing application is one that actually functions in practice, not just in theory. If there exists no application code or anything similar to cause the relevant computing system to function as intended, at least in part, there exists no “working” solution.*
- *To receive full credit for the assignment, the student must [1] correctly implement and [2] correctly demonstrate a fully working solution, as specified within the assignment. In other words, the student’s grade is not only dependent on how a solution is implemented, but also on how a solution is demonstrated. That is, even if the student implements a correctly working application, if they are unable to correctly demonstrate this solution as specified within the assignment, they will not receive full credit.*
- *If the student is unable to implement a fully working solution, they may still demonstrate a partially working solution, in order to receive some amount of partial credit. However, if the student is unable to demonstrate any form of a working solution, they will receive no credit.*
- ***The student will have one, and only one, attempt to perform a demonstration.***
  - *Before the assignment is submitted, the student must upload to the assignment a single zip file containing all work, excluding anything handwritten. If the student fails to upload a zip file to the assignment, they will be ineligible to perform a demonstration and will receive no credit.*
  - *The assignment must be submitted before the student can perform a demonstration. Once submitted, to request that a demonstration be performed, the student must use the “Ask for Help” feature of the relevant Zoom meeting. (Details regarding this Zoom meeting are discussed further below.)*
  - *Before starting a demonstration, the student must share their connected camera, microphone, and computer screen via the same Zoom meeting. The entire computer screen must be shared, not just some particular application window.*
  - *During a demonstration, the student is expected to prove that any functionality for their solution can come from only their work that was submitted to the relevant assignment. As such, the student must be able to download and utilize the submitted zip file containing their work. The student will not be able to utilize any work other than what was submitted, since it is impossible to tell whether or not the student [1] kept working past the imposed time limit for the assignment or [2] inappropriately communicated with someone after submitting the assignment.*
- *Unless otherwise noted by a course instructor, the student must have direct access to*
  - [1] a computer system for viewing and submitting this assignment,*
  - [2] an OOTB  $\mu$ PAD kit,*
  - [3] an Analog Discovery (e.g., a Digilent Analog Discovery [DAD]) kit,*
  - [4] a breadboard,*
  - [5] a programmable logic device (PLD) kit capable of interfacing with [2] by way of [4],*
  - [6] eight single pole, single throw (SPST) switches,*
  - [7] eight LEDs,*
  - [8] enough resistors to create eight functional SPST and LED circuits, and*
  - [9] enough jumper wiring for items [2]-[8] to completely connect to one another (from your previously submitted EBI Lab), and*
  - [10] extra jumper wires.*

*In addition, the student may have direct access to*

- [11] any documentation provided within the assignment,*
- [12] a printout of the schematic provided prior to the practical (containing no additional marks of any kind),*
- [13] two completely blank pages of paper, of size 8.5" x 11" or smaller, and*

[14] some writing utensil(s).

For [1], i.e., the computer system used to view and submit the assignment,

- i) in regard to external peripherals, the student must utilize only a single display, camera, microphone, keyboard, mouse, speaker (or set of speakers), not headphones or earbuds, and items [2], [3], and [5], listed above;
  - ii) in regard to software, the student must have access to Google Chrome, Zoom, Atmel Studio, WaveForms, Quartus, some PDF viewer (e.g., Adobe Acrobat, Foxit Reader, Google Chrome, etc.), some serial terminal program (e.g., PuTTY), SerialPlot, and a default file system program provided by the computer's operating system (to view files locally stored on the computer); in addition, the student may have access to some text editor (e.g., Notepad, Notepad++, Visual Studio Code, etc.), some CSV reader (e.g., Microsoft Excel), and the Canvas calculator (but it is even better to use the assembler/compiler as a calculator);
  - iii) in regard to files stored locally on the computer, besides those that are created for this assignment and besides those that are needed to utilize the above-mentioned software, the student may only access files that they created for the course (e.g., application code files created for assignments) and files given to the student by the course instructor(s) for the purposes of the course (e.g., device documentation, the "baud rate calculator," etc.);
  - iv) in regard to the Internet, the student may only access the webpage(s) for accessing and submitting this assignment, as well as any webpage that may be directly linked within this assignment. The student may not access the course website, <http://mil.ufl.edu/4744/>.
- Besides the items permitted above and unless otherwise noted by the course instructor(s), the student must not utilize anything that may provide information for how to complete this assignment. Additionally, no item may be utilized for unconventional purpose(s).
  - While completing the assignment, the student must be connected to the Zoom meeting previously assigned to them. (A course staff member should have previously contacted the student through either email or Canvas to let them know how to access their assigned Zoom meeting.)
    - Before going to the Zoom link, log in to UF's Zoom, <https://ufl.zoom.us/>. Use your **FULL** name.
    - Until the assignment is submitted, the camera and computer screen sharing features of Zoom must not be utilized. However, after the assignment is submitted, the student will need to utilize these and the microphone feature of Zoom to demonstrate their submitted work to a course staff member.
    - If the student wishes to ask a question to a course staff member, the student must use a direct message Zoom chat with the course staff member.
    - If the student experiences any persistent issue(s) regarding Zoom, they must make every effort to alert a relevant course staff member to the situation.
  - The student must utilize Honorlock to complete the assignment.
    - When Honorlock requests that the student scan their work area with the connected camera, the student must make every effort to clearly and thoroughly show [1] all of this area, [2] all of the connected computer screen, using some form of a mirror (such as a smartphone screen, etc.) if necessary, [3] both sides of every blank page of paper brought, and [4] all of every writing utensil brought. (This process is likely to take about 60-90 seconds if done properly.) If it is apparent to the course instructor(s) that the student intentionally did not show some of these items, fifty points will be deducted from the student's grade for this assignment and the course instructor(s) will assume that the student has cheated.
    - The student must make every effort to share their connected camera, microphone, and computer screen through Honorlock at all times. If it is apparent to the course instructor(s) that the student intentionally stopped sharing one of these items, the course instructor(s) will assume that the student has cheated.

- *If the student experiences any issue(s) regarding Honorlock and they themselves are unable to fix said issue(s), they must use the "Live Chat" feature of Honorlock, which will be located on the right side of the relevant window. When this problem occurs, the student should immediately notify the course staff member(s) to the situation via the chat window of the relevant Zoom meeting. If the student is unable to solve any issue(s) regarding Honorlock using the "Live Chat" feature, the student must again alert some course staff member(s) to the situation.*
- *If you ever have WiFi or other internet connection problems just before or when your quiz begins, use your **phone** to connect to Zoom and use Zoom chat with the relevant PI. Describe the issue and continue to try to get back in!*
  - ***As an emergency backup (if your internet goes out), you should learn how to setup your phone as a WiFi hotspot.***
- *For each question within this assignment, the student may be expected to deduce obvious instruction from the relevant context. The student must read all questions carefully and must follow all instructions given. If the student has any question(s) themselves, they may ask a course staff member for assistance; however, all course staff members always reserve the right not to answer a question posed by the student, if answering the question may provide the student with an advantage over any other student(s).*
- *Except if asking a course staff member some question, and except if asking an Honorlock representative for assistance in handling issue(s) regarding Honorlock, the student must not communicate with anyone.*
- *For anything undefined, if necessary, the student may make some additional assumption(s); however, when graded, the relevant course staff member(s) will make the final decision as to whether or not an additional assumption made by the student is reasonable. Whenever possible, the student must explicitly note an additional assumption made.*
- *This assignment accounts for **3%** (Practical 1) or **7%** (Practical 2) of the student's total course grade.*

**PLEDGE:** *On my honor as a University of Florida student, I, the student whose name is to be associated with the work submitted for this assignment, certify that [1] I have read, understood, and, unless otherwise directed by the course instructor(s), will abide by the above while completing this assignment, [2] after submitting this assignment, I will not communicate any details of the assignment to any student in our course that has yet to complete the assignment, and [3] if I suspect that unauthorized aid in completing this assignment has been utilized by any student, I will immediately report my suspicion(s) to the course instructor(s). In addition, I understand that if I am involved in any form of cheating whatsoever, including those forms referenced above, I am to receive no credit for this assignment, I am to receive a failing grade for this course, and I am to be referred to Student Conduct and Conflict Resolution for possible expulsion from the university.*

**NOTE:** *By opening and starting this assignment, the student whose name is to be associated with the work submitted for this assignment wholeheartedly commits to the above pledge.*

**NOTE:** *If an image is not appearing or not complete, if you are using a Windows computer, use Ctrl-F5 to refresh the Canvas page; if you are using a Mac computer, use Ctrl-Shift-R.*