



# EEL4744

## Practical 2

### Practical 2:

- Wed, 24 Apr
- 4:05pm
- Honorlock w/ Zoom



See [Rules and Policies](#) - [Practical Quiz](#)

Use group configurations and bit masks whenever possible!

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- ~37 minutes (115 minutes to do it)
- Relevant topics include:
  - > Labs 0-7 (**no** EBI), DAC of Lab 8 (**no** DMA)
  - > HW 0-4
- Something relatively simple
- You will program & debug your own code and execute your design for a PI or Dr. S.
- Allowed **on your computer**
  - > **YOUR** old lab documents and software
    - > Original lab#\*.pdf, .asm, .c, .h files
    - > ASCII table; IMU documentation
    - > OOTB schematics (for Practical 1-2 only, i.e., not for Lab Quizzes or Final Exam)
  - > XMEGA documentation
  - > **Baud Rate Calculator** (not from website)
  - > **Canvas calculator**
    - > But better to use the **compiler** as a calculator
- **NOT** allowed:
  - > Other student's info
  - > Access to anything not specified
  - > Another computer, cell phone, calculator, ...



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## Credit **ONLY** Given for What's Demoed

- In order to get partial credit:
  - > **Points are only awarded for items that are demoed, not for designs/code that are not demoed.**
  - > No points are awarded for designs/code.
  - > You must have a single solution, i.e., you cannot modify your solution during the demonstration to show parts of the solution and then modify or use another program to demonstrate a second part of the solution.
  - > If you cannot solve the entire problem, it is up to you to determine a procedure that can demonstrate what does work (but still are allowed only a single solution).

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## Provided Before Practical

- Prior to the practical, a PI (probably **NOT** your lab PI), will send you a Zoom link to use for the practical.



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## What to have Available at the Practical

- Bring the following to the practical:
  - > **Your PC, with web cam & speakers**
  - > **Your entire 4744 kit (all *μPAD* PCBs, USB cable)**
    - You will **not** need a breadboard or the EBI hardware
  - > **Your DAD**
  - > Two pieces of scratch paper, with nothing written or printed on either side
  - > **Install an app to open pdf files other than Chrome. I recommend *Adobe Acrobat Reader*.**



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## Losing Internet Connection

- If you ever have WiFi or other internet connection problems just before or after your practical begins, use your **phone** to connect to Zoom.
  - > Zoom chat with the relevant PI.
    - Describe the issue and continue to try to get back in!
    - The PI will contact Dr. Schwartz.
  - > **As an emergency backup (if your internet goes out), you should learn how to setup your phone as a WiFi hotspot.**



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## Honorlock Problems

- If you are having problems with Honorlock, contact Honorlock and keep trying!
- Use Zoom chat with the relevant PI.
  - > The PI will contact Dr. Schwartz.



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## EEL4744 Honorlock Room Scan, if Requested

- The room scan should be thorough and take about one minute. See Honorlock: Proper Room Scan (on the front page of our website).
  - > Be sure to show your desk, computer monitor, walls, floor near your computer, and ceiling.
- In addition to the complete room scan, show each of the following:
  - > Both sides of scratch paper

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## EEL4744 Zoom during Practical

- Prior to opening Honorlock, connect to our Zoom link for Practical 2; a PI will send you **your** Zoom link.
  - > Log in to UF's Zoom (with 2-step authentication) <https://ufl.zoom.us/>. Use your **FULL** name in Zoom.
  - > In Zoom, be sure to turn off your video before opening Honorlock.
  - > You will start in a single Zoom room, but when you are ready to demo, you will be assigned a private breakout room.
- If you have a **question**:
  - > Use Zoom chat to talk to your PI directly.
    - When the PI is in a breakout room, checking off another student, the chat is not available to the PI.
    - Be patient; each PI will have several students.
  - > Do **not** ask for any feedback on a design.
  - > The PI will **not** tell you if your answer is correct or if you have done everything necessary.

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## Integrity

- Once you start zipping your Microchip/Atmel Studio project, you are **no longer allowed** to make any changes to any of your design in Microchip/Atmel Studio, in Waveforms, or with your DAD connections.
- No more work is allowed, other than the required submission of the file.



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## Honorlock ID Scan Extras

- After your Honorlock ID scan, show the following to your camera.
  - > Both sides of both sheets of your scratch paper.
  - > Also show your breadboard (containing nothing not allowed).
- You will scan and submit images of this paper with CamScanner or equivalent as specified later in this document.



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## EEL4744 Honorlock During Practical

- In Honorlock, you must share your computer screen, video, and audio with the proctoring PI at all times. Do **NOT** close Honorlock until after your demo.
  - > See page *Honorlock Room Scan*, **if Requested** if Honorlock request a room scan.
- When you are done, zip your Microchip/Atmel Studio project (**WITH** your entire Quartus folder), as demonstrated in the gif provided earlier in the semester and as you do for your lab submissions.
  - > Upload the resulting zip file to the Practical Quiz. After uploading, **NO MORE WORK** is allowed.
- If you are finished before the time is up, let the PI know, and when the PI has time, they will let you demo.
  - > Tell the PI you are ready be sending **READY** in the Zoom chat.
  - > The PI will instruct you to close Honorlock when ready for you to perform the required demo.
- If you are not finished until the deadline, the assignment will automatically close when time is up. It is therefore **critical** that you upload your zip file before time is up!
  - > If you do not, then you will earn a zero on the Practical.
- When demoing, you will also share your screen and your camera.

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### Time Remaining

- Keep you speakers on so that you can hear any announcement that the PI makes.
- The PI will **VERBALLY** tell you when 5 minutes are remaining (and also a few other times, like 37 minutes and 10 minutes remaining).

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## Demo for Practical

- You will have only **ONE chance** to demo your work.
  - > If you think you are ready, read the question **again** to be sure that you completed **ALL** parts of the Practical.
  - > Be prepared to run your design, as instructed, with your DAD connected as specified. Also, be prepared to show your code, with the specified breakpoints.
  - > When you are satisfied that your design is finished and read to demo, zip your entire Microchip/Atmel Studio folder(s) (including **ALL** relevant files), as demonstrated in the gif provided earlier in the semester and as you do in your labs.
  - > Upload this zip file to the Practical Quiz.
  - > **After** you have uploaded your zip file, continue in Honorlock and do **NOT** leave the Zoom meeting.
  - > Now use Zoom's chat to tell your PI that you are read to demo with the one word message: **READY**.

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## Demo for Practical

- If you have not demonstrated your solution at least **five minutes** before the practical is due, at that time, you must **stop working and zip** your Microchip/Atmel Studio project and upload the resulting zip file to the Practical Quiz.
  - > Failure to upload your zip file before the end of the practical will result in a grade of zero.
- After completing your upload, continue in Honorlock and do **not** leave the Zoom meeting.
  - > You **must NOT** leave the Zoom meeting until you demo something (or to tell your PI that you are giving up); if you do give up without a demo, you will earn a zero.
  - > Once you leave Zoom, you will not be able to reenter the Zoom Practical.

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## EEL4744 Immediately Prior to the Practical

- Below has been shown to prevent problems that have happened to a few students in the past. It wouldn't hurt and could save some aggravation.
  - > Verify that you have your UF ID, passport, or driver's license (for the Honorlock scan).
  - > Clear your cache in Chrome.
    - Reinstall the Chrome Honorlock Extension.
    - Close then reopen Chrome.
  - > Verify that you have the files that you need (and are allowed) available from your desktop.
  - > Reboot your computer.
- Be sure that there is enough light for your face to be clear during the exam (for Honorlock). If not, find a lamp or a different area.

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## Immediately Prior to the Practical

- Close **all programs/applications** other than Chrome.
- Close **all Chrome tabs** other than Canvas.
- Turn off any potential pop-ups that could occur during this assignment.

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## Finishing your Practical

- After you have demonstrated your Practical solution, close Zoom.  
>Your are done!



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# *The End!*