



ECE375 Lab I

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Information

- Lab website

- <https://web.engr.oregonstate.edu/~jangha/ece375/>
- All lab materials can be found in here.
- Tutorial videos are also provided.

- Canvas

- Assignments should be submitted via Canvas.
- Gradings for each lab will be updated by the beginning of following week's lab.



Must-know Policies

- COVID-19
 - Face covering is required at all times.
 - Stay home and alert your TA when you test positive or have symptoms.
- Lab sessions
 - Will only be used for check-offs.
 - Only your lab TA can get you checked off.
 - Check-offs are based upon the principle of students must be present on site.
- Office Hours
 - TAs will run their office hours at the lab.
 - Asking for debug-helps must be gone through office hours or separate appointments.
 - Note, we do not respond to your email that contains code.
 - Because we need to check both hardware and software to examine.



Work Policy

- You can work alone or in a group as you prefer.
 - A group can have no more than two people.
 - Your partner should belong to the same lab section.
 - You may change the partner for each lab.
- For whom works in a group
 - Every individual must submit assignments.
 - You and the partner must submit the exact same file.
 - Your file must include your partner's names to prevent plagiarism issues.
 - Prelabs must be work independent.



Assignments

- Assignments must be submitted via Canvas.
- Every assignment must follow the naming convention explained in the lab website.
- Your report files must use templates provided in the lab website.
- Your Code(asm) file must include you and your partner's name at the top.
- No late work is allowed.



Plagiarism

- It is never allowed to represent another person's work as your own even just the small part
- If you're in a group, you and the partner is on joint responsibility.
 - It's also your obligation to manage your partner.
- Plagiarism checking will happen at the end of the term.
 - Don't waste your whole work of a term by falling into one temptation.
- The system will directly report you to the department as an academic dishonesty.



Plagiarism includes

- Excluding your partner's name.
 - The plagiarism checker will raise the flag when you both submit the same file but does not specify both names.
- Partially copying code.
 - I don't care whether you understand the code or not.
- Changing names of registers or just comments.
 - Don't think the plagiarism checker is stupid enough.

Gradings

- Prelab reports : 10%
- Lab reports : 30%
 - You lose half if your report file doesn't include your code in the bottom.
- Check-offs : 60%
- Challenge code : extra 10%
- You will receive zero for both if you miss either of a lab report or check-off.



Check-off Instructions

- 1. TA will download your submitted code from Canvas.
- 2. Compile and flash the code to an AVR board.
- 3. Demonstrate it's correctly working.
 - Although you didn't make it to complete the lab, show your work to TA to get partial credits.
- 4. Explain your code.
 - TA will ask some questions regarding the code. Poor answering will take away some credits.
 - Adding comments in every line is required.



Lab Introduction

- Lab I is to let you familiarized with software and the board.
 - Install Atmel Studio.
 - Install USB Programmer.
 - Install Universal Programmer GUI.
 - **Make sure you extract every file included.**
 - Install USBASP Window Driver.
 - Run Universal Programmer GUI.
 - You can also use AVRdude but not recommended.
 - Download AVRdude.
 - Setting AVRdude in Atmel Studio.
- A tutorial video is provided in Canvas lab.



Check-off Lists

- You simply download the example code and program in your AVR board.
- Show to your TA it runs with correct Bumpbot behaviors accordingly to different triggering whiskers.



Announcements

- No write-ups required for lab I report.
 - Remove contents like introduction, program overview, and so on.
 - You only need to answer study questions.

Questions?

