

# Using the ME461 Repository

## Clone the Repository

### [In a web browser]

- Navigate to <https://github-dev.cs.illinois.edu/ME461FALL21/Labrepo>
- Login with your NetID and your password.
- In the upper right corner, select, Fork the Repository.
- After forking the repository, navigate to the newly made repository's settings.
- Rename the repository to your group members (or just your) NetIDs and press the Rename button.
- On the left side of the screen, select the Collaborators & teams option.
- All the way at the bottom, add your partner (if you have one) [by NetID] as a collaborator, and change their permissions to Admin.

Your repository now exists online with GitHub-dev. To bring the files down to the local PC complete the following steps (this will need to be done at the beginning of the semester and if/when you need to work on a different PC):

### [In File Explorer]

- First at your Github repository website, click the green "Code" button. In the drop down window to the right of your repositories website, click the copy button.
- Create a new folder on the C:\ drive. Name it by yours and your groupmate's NetIDs "for example c:\dan461"
- Open the folder
- Right click in the open folder, and select 'Git Clone'
- The URL should already be in the link because you clicked the copy button at your repo's website.
- Click 'OK'
- You will be prompted with your NetID and Password.

## Back up your Local Repository to GitHub

You should complete this section at the end of every class or after you have made changes that you want to back up. Especially for the first half of the semester the only place in the repository that you are going to be adding and modifying files is in your "workspace" folder. Of course, later on in the semester if you make changes in another folder, you of course can add/commit those files also. I do not recommend that you commit your entire "workspace" folder. When you clone/update your "workspace" folder on a different PC, Code Composer Studio does not recognize your workspace correctly. I do recommend that you commit your individual projects in your "workspace" folder. For example, if you created a new project call "Lab1" there will be a folder "workspace\Lab1" that I

recommend you commit to your repository. This means when you clone your repository to another PC you will just need to select your “workspace” folder, when CCS starts up, and then reimport all the projects you want to use on that PC.

#### **[In File Explorer]**

- Navigate to C:\YourNetIDs\LabRepo\workspace
- Right click on any workspace project’s directory you want to commit
- Under ‘Tortoise Git’ select ‘Add’
- Select All. (If there are no files to add, skip this step.)
- Again right click on the repository folder and select ‘Git commit -> “master”...’
- This will show you all the files you added or files you modified.
- Add a comment about what has been changed, and click ‘Commit’.
- Finally, right click on your repository folder and select ‘Git Sync...’
- Click ‘Push’ and provide your credentials.

## Course File Updates

This section will only be completed when notified by instructor or TA.

#### **[In Web Browser]**

- Navigate to <https://github-dev.cs.illinois.edu>
- Login with your NetID and your password.
- Navigate to your repository on GitHub.
- Press the ‘New Pull Request’ button.
- First change the ‘base repository’ to your repository, after which you will need to press the ‘Compare across forks’ to be able to change the ‘head repository’.
- Change the head fork to ME461FALL21/LabRepo.
- Press the ‘Create Pull Request’ button, then ‘Create Pull Request’, then ‘Merge pull request’, and finally ‘Confirm Merge’.

#### **[In File Explorer]**

- Navigate to C:\YourNetIDs\
- Right click on the repository folder.
- Right click on your repository folder and select ‘Git Sync...’
- Click ‘Pull’ and provide your credentials.