# How to Package your ECE 443 Project for E-mail Submission

I have encountered multiple instances where utilizing the MPLAB project “package” feature has resulted in an incomplete build tree, preventing me from compiling and testing submitted projects. My hope is that by following these instructions we will eliminate this unpleasant issue.

1. Download a project from Dr. J’s Bitbucket account into the “Projects” folder of the FreeRTOS distribution, or simply copy an existing project folder. This ensures that the FreeRTOS project file (the .X file) will have the correct paths, although you may need to add additional source files to the project as we utilize additional features.
2. Rename the project folder to satisfy naming requirements, e.g. vand1234\_443\_p1.
3. Open the MPLAB project under this folder and use MPLAB to rename the project to match the name above. Be sure to also check the “Also Rename Project Folder” box.
4. Do not make any changes to files other than those under the project folder that you created via cloning or copying.
5. Copy/create any existing sources from earlier projects to your project folder and then add them to the MPLAB project using a relative path. Do NOT simply add sources from other projects without first copying the file into your local project directory.
6. Build and debug your project. (Repeat as needed ☺)
7. When you are ready to submit your, clean the project, then use Windows to produce a compressed archive (i.e., zip file) of the folder created in step 2, i.e. the one with your name (e.g., vand1234\_443\_p1). In theory, this should include all sources required to rebuild the project on a different machine, independent of the directory structure
8. Test this theory by using the zip archive to build the project on a new machine. If successful, share the zip archive from your UI OneDrive account with Dr. J.

Phew!