EC Petal Loading "Quick-start" Guide

Setup: Un-Zip Folder

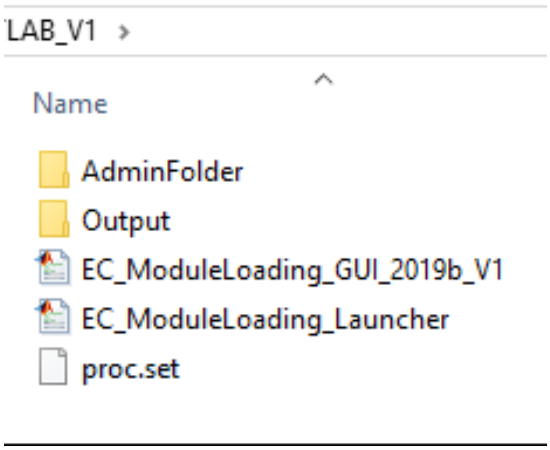
Un-Zipped Files:

AdminFolder (Folder)	
- AerotechFunctions (Folder)	→ Spare folder of all Aerotech functions
- Reference_Images (Folder)	→ Folder of all Images used in code
- gantryValues (Excel File)	→ Values related to module loading
- glueValues (Excel File)	→ Values used for gluing
- surveyValues (Excel File)	→ Values used for surveying placements
- Users (Excel File)	→ File of usernames and passwords
Output (Folder)	
- Output_Images (Folder)	→ Folder where saved images go
- Petals (Folder)	→ Folder where info on each petal goes
- Coordinates (Text File)	→ Text file where saved coordinates go
- GantryLog (Text File)	→ Text file of general gantry log
EC_ModuleLoading_GUI_2019b_V1 (MATLAB File)	→ Main app file
EC_ModuleLoading_Launcher (MATLAB File)	→ Main app "launching" app file

Steps:

- Unzip the folder to desired location on computer
- Create a shortcut of the "Launcher" MATLAB file (used to open/run GUI)
  - If desired, change icon to "matlab_gui_logo_18K_icon" found in Reference_Images folder →

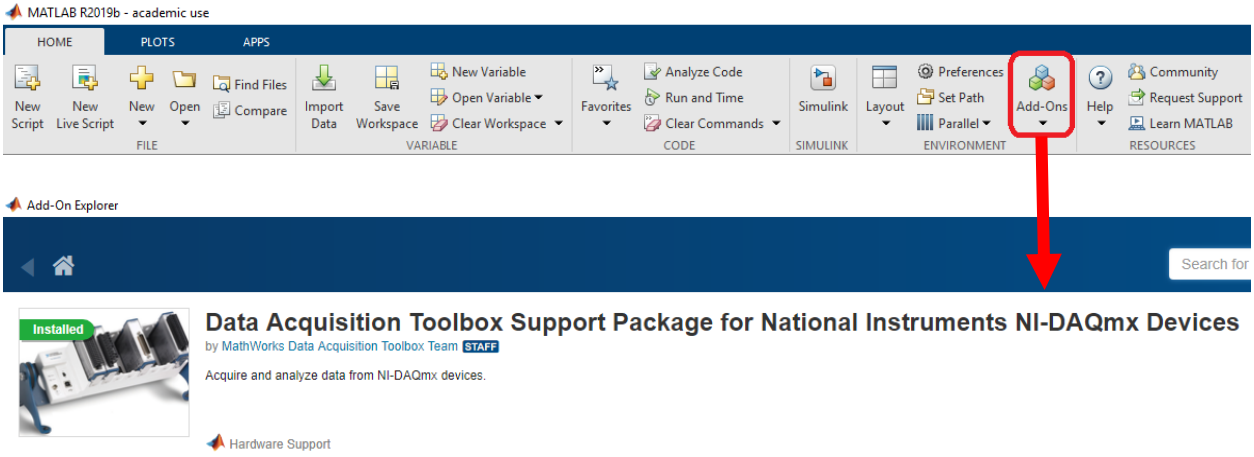
- **Recommended:** Create another shortcut of the "Output" folder (this is where all the output information will go – see above)
- Open "Users" file and change the usernames and passwords to suit the users at your site
- Open "gantryValues" file and change the camera/glue dispenser offset values as well as the pickup tool locations to match their locations (the Z value is the actual height the gantry head is at when in contact with the tool)
- **All other folders/files should not be modified**



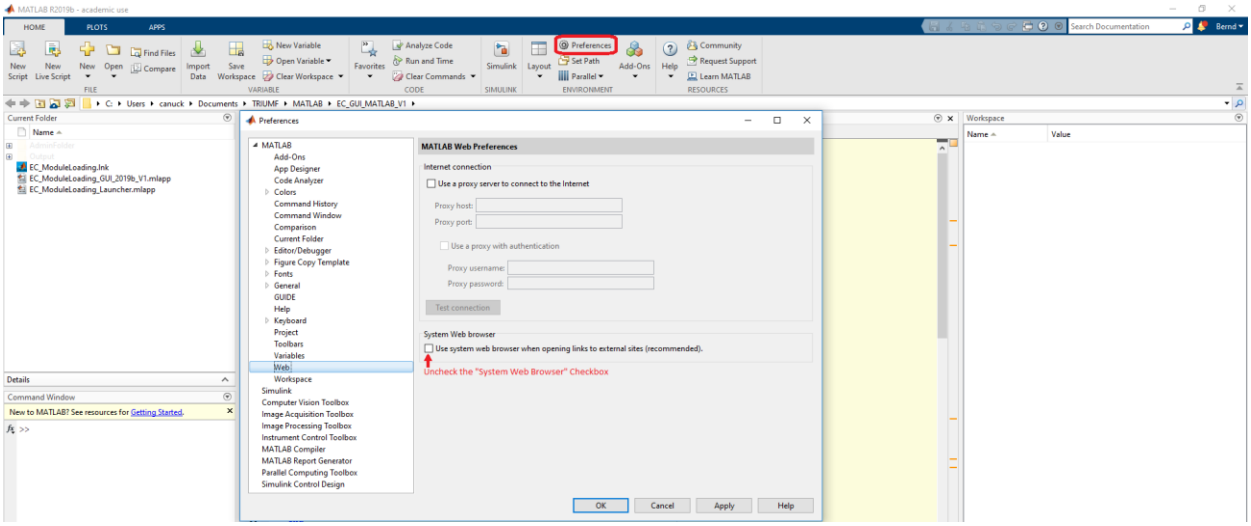
	A	B	C
40	**PickUp Tools**		
41	**R0**		
42	524.887931	-498.7446	-130.21
43	**R1**		
44	268.887931	-498.7446	-120
45	**R2**		
46	452.887931	-498.7446	-130.21
47	**R3**		
48	524.887931	-498.7446	-130.21
49	**R4**		
50	268.887931	-498.7446	-120
51	**R5**		
52	524.887931	-498.7446	-130.21
53			
54	**Camera**		
55	117.2707436	-0.356491969	-34
56	689.32	-449.74	-91.39
57	115.7561	1.2652	-20

Setup: MATLAB

- Download/install MATLAB (Version 2019b)
- Download/install NIDAQmx Add-On for MATLAB
    - Select “Add-Ons” and type in NIDAQmx to find it



- Go to: **Preferences → MATLAB → Web**
    - Ensure “System Web Browser” checkbox is <u>unchecked</u> (this is mainly for Cognex camera)



Setup: Cognex Camera/Software (Once IS8405 camera has been acquired)

(In Progress)