What is this short guide about?

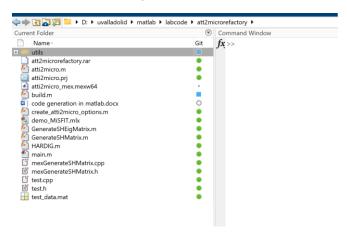
You will learn how to generate code for c++ and mex files using matlab.

What are the previous requirements?

- 1. Matlab Installed
- 2. Access to the DMRIMatlab code, you can find it here http://www.lpi.tel.uva.es/dmrilab

How to Use the GUI to generate code

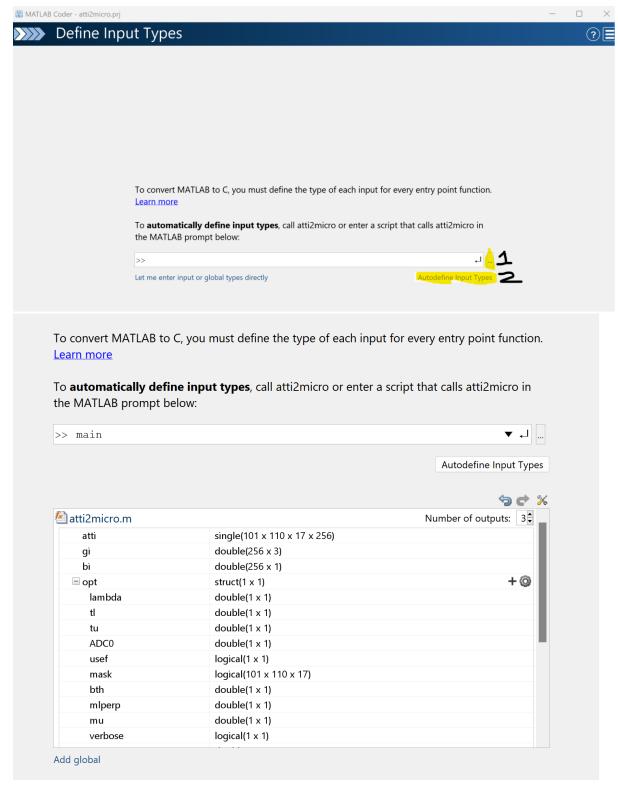
1. Get the code you want to work with, make sure that you have all the files you need



- 2. It is important that you have a main.m file that will call your function. In this case, we are working with the atti2micro.m file and we will call it from the main.m file.
- 3. Click in Apps> Matlab Coder and a GUI will open. Then select the function "atti2micro.m". Press Next



4. Select the Main function, which is using and calling atti2micro.m . Then click on "Add Entry-Point Function"



- 5. Next and then click on "Check for Issues". If there are issues that you need to correct, the issues will appear in this window.
- 6. If no issues found, click next and the code will be generated in the same folder you are working on

Generate code using script

1. Create a Build script

2. Go to the console and write: build mex *note: you can also write build lib to get a c++ library

```
>> build mex
It took 300.666185 seconds to load data
Code generation successful: View report
```

3. If there are errors you will see the errors in the same command console