## Simulink Configuration Guide with Arduino

Created by: Farid BOUSSAOUD Date of creation: 02/2024

Version: 1.0 Revision: x Status: Final

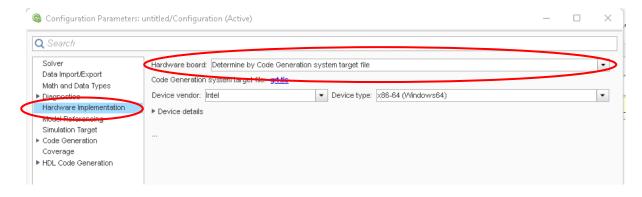
**Description:** Simulink configuration guide with Arduino UNO3

## Prerequisites:

- Matlab Simulink with the Arduino toolbox.
- Arduino board
- USB cable.
- Step 1: Connect the Arduino to the PC via the USB cable.
- Step 2: Open Simulink.
- Step 3: Create a new blank document.
- Step 4: Navigate to the "Commonly Used" toolbar → "Modeling" → "Modeling Settings".



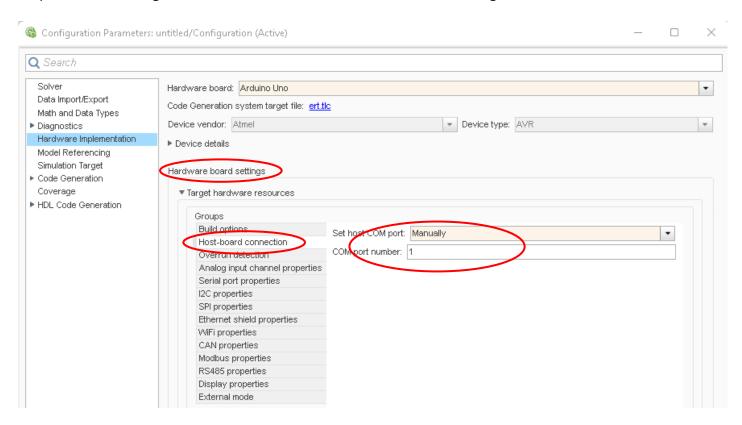
Step 5: Navigate to "Hardware Implementation" → "Hardware Board".

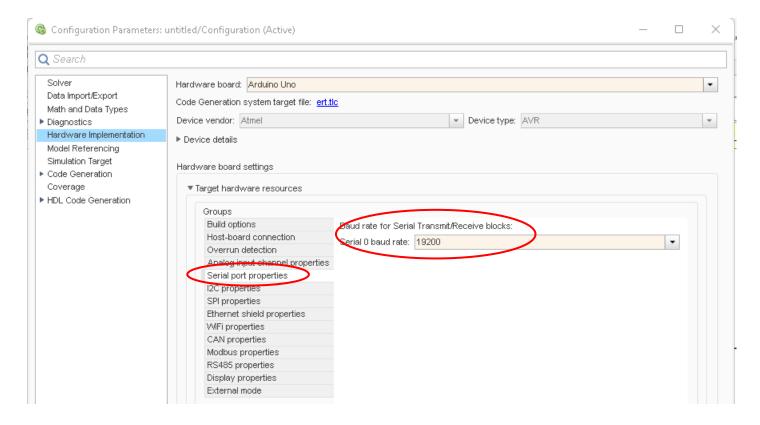


Step 6: Select the connected Arduino board.

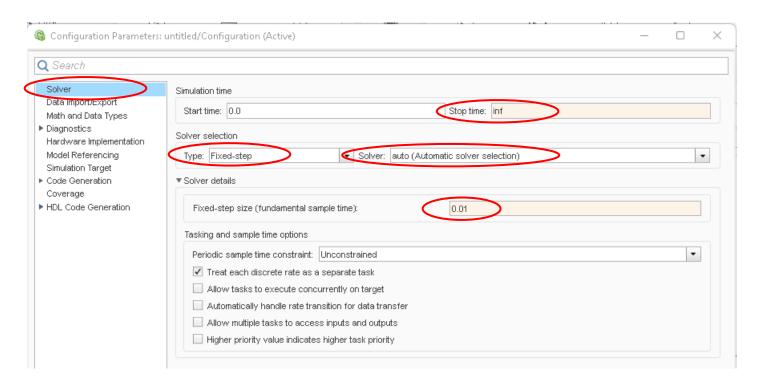


Step 7: After selecting the Arduino board, click on "Hardware Board Settings".



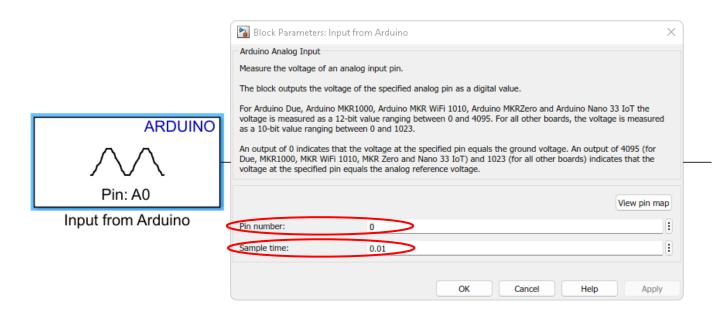


Step 8: Navigate to the "Solver" settings.



Step 9: Apply and OK.

Step 10: In Simulink, add an "Analog Input" block, then adjust the following settings:



Step 11: Create the program that converts input from Arduino to voltage