

RWTH Toolbox and NXT condensed installation guide

Complete instructions at this link (skip installing Matlab of course):

http://www.clemson.edu/ces/departments/ece/document_resource/undergrad/matlab/RWTH_Setup.pdf

These have video, but appear to skip the crucial bit about “libusb-win32”:

<http://people.clemson.edu/~nwatts/engr141/instructions/>

Once you’ve done it the before, these are the condensed instructions (i.e. they have little pieces left out that you’ll remember after the first time):

1. Download and unzip: <http://www.mindstorms.rwth-aachen.de/documents/downloads/RWTHMindstormsNXTv4.07.zip>
2. In Matlab, browse to this folder. Right-click -> Add to path -> This and Subfolders (this is temporary, a more permanent way is in the other instruction pages)
3. Outside the lab, you will have to install the NXT Drivers from here: <http://mindstorms.lego.com/en-us/support/files/Driver.aspx>
4. *This step only needs to be done once to get the RWTH program on the brick*
 - a. Download: <http://bricxcc.sourceforge.net/nextexplorer.zip> and run it.
 - b. Find the “MotorControl2.rxe” file and upload it to the brick.
5. Download and unzip: <http://sourceforge.net/projects/libusb-win32/files/> and click through the dialogs. Install the “.ini”.
6. In Matlab, you should always follow this process:
 - a. `>> h = COM_OpenNX();`
 - b. `>> COM_SetDefaultNXT(h);`
 - c. `>> ... Do stuff here ...`
 - d. `>> COM_CloseNXT(COM_GetDefaultNXT());`
7. Documentation found here: <http://www.mindstorms.rwth-aachen.de/trac/wiki/Documentation>