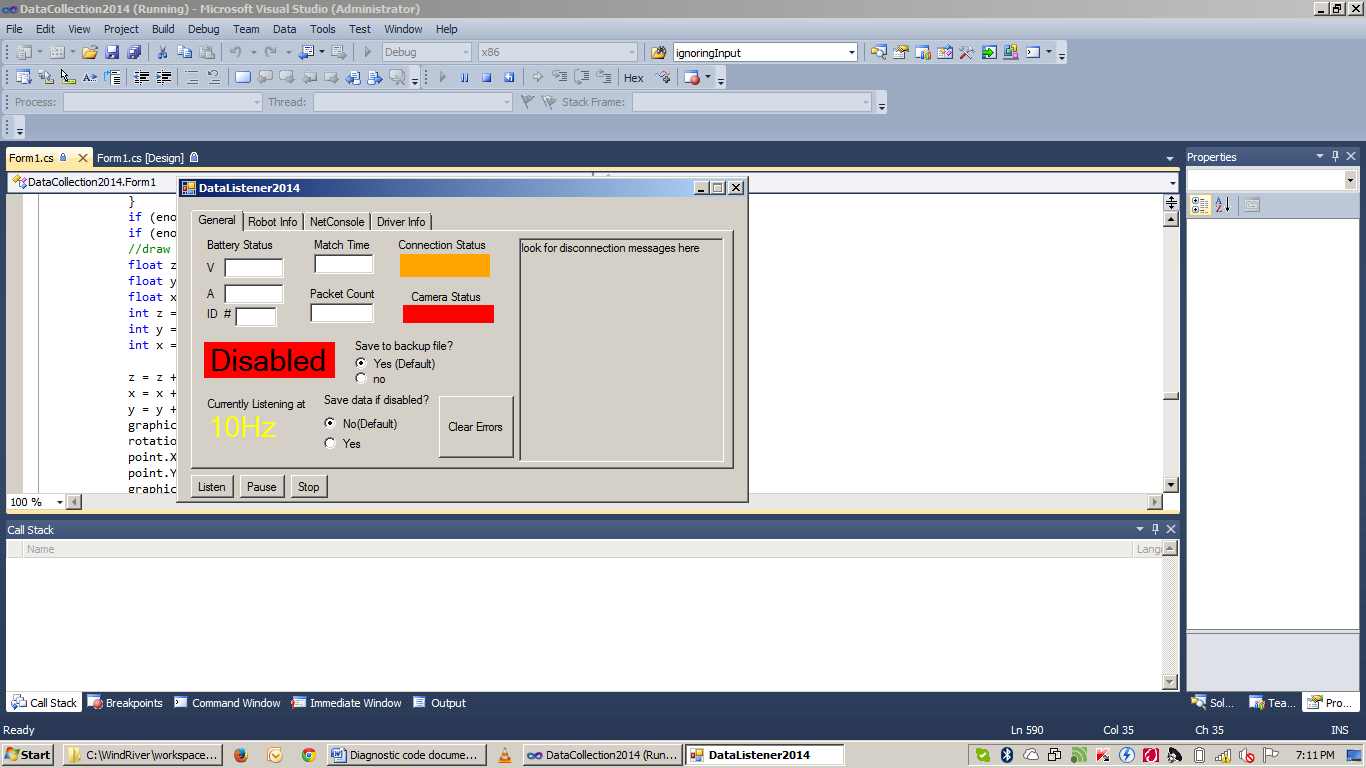
Debug and Diagnostic Code Documentation



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Team 1073

Software – Electrical – Integration

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**1. Software Required to Compile**

In order to read, use and deploy the diagnostic code, you need to download and install the following programs:

* WindRiver Workbench (and workbenchUpdate 20140325rev3887.zip)
* Visual Studio 2010
* Visual Studio 2013 (optional)
* TortoiseGit(optional)
* GitHub application (make sure you have a GitHub account)
* FRC2014UpdateSuite.zip (to run the robot)

Other useful programs to Install and Run:

* (I) 2CAN Firmware Utility – Program, diagnose, and update firmware on the 2CAN
* (I) FRC Bridge Configuration Utility – An easy way to configure and program the radio
* (I) WireShark
* (R) BDC-Comm
* (R) Robotbuilder

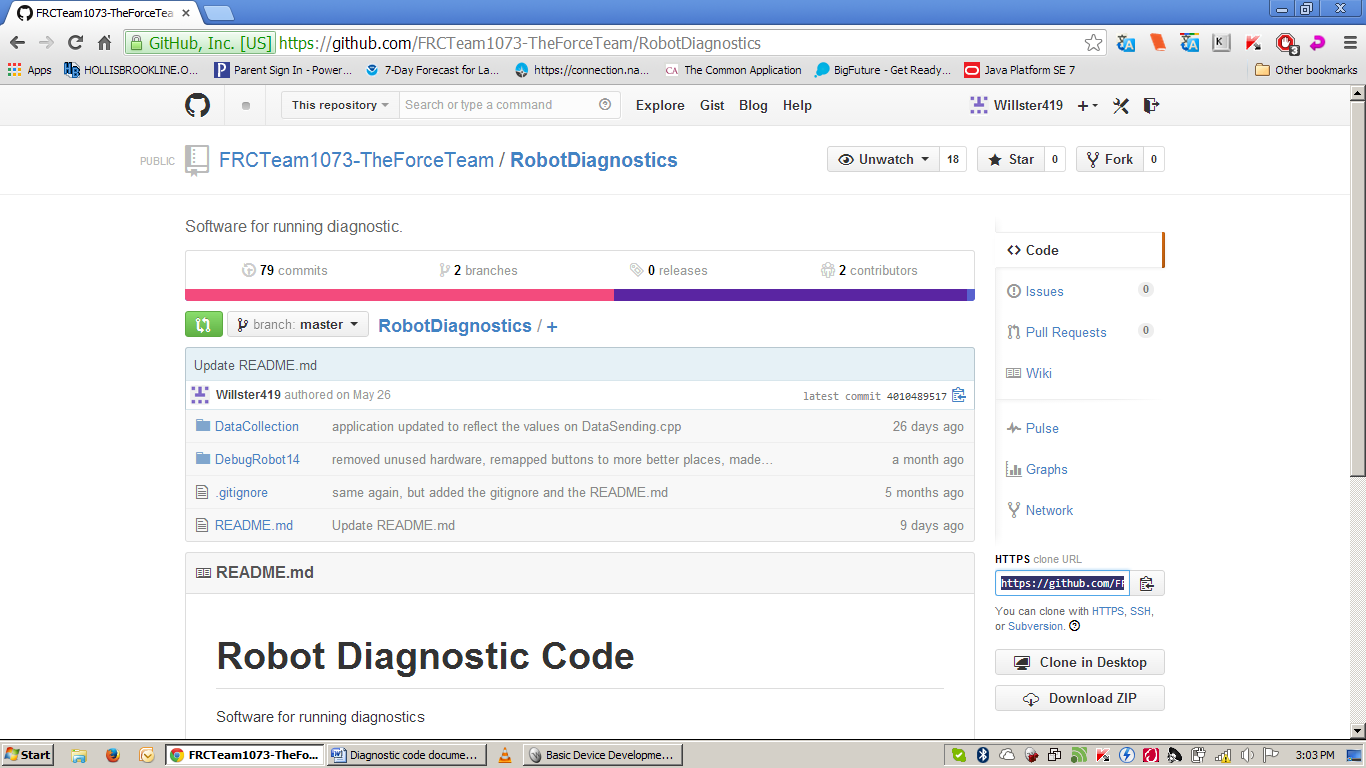
**2. Setting up your development environment**

There are two applications of which you need to setup your development environment: WindRiver and Visual Studio

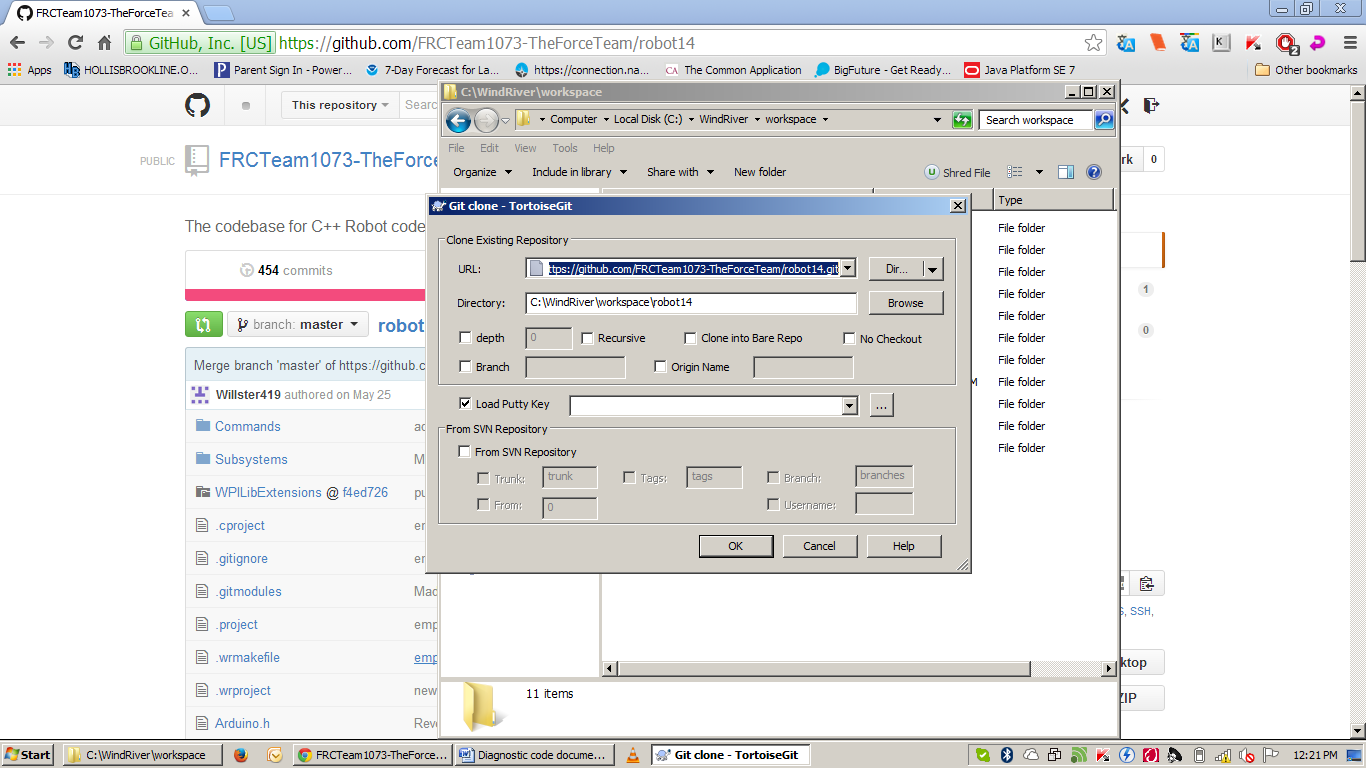
(The following assumes you installed everything)

WindRiver:

1. Open your web browser to github.com and find all of the software code for our team. A link for some of them are on the flash drive. Then copy the “clone url” to paste into tortoiseGit later.



1. Navigate into C:\WindRiver\workspace And run the git clone command from the right click context menu. If you use tortoiseGit, it will look like this:



Talk about the git clone

If you already have the code folder there, and just need to update, then right click on the folder and select git sync, then the pull button. (of course, you should have commited/pushed you changes first)

If you want to change branches, then use the switch/checkout menu.

(the following is if it is your first time opening this application)

1. Open WindRiver and select the default workspace if it is your first time loading. (C:\Windriver\workspace)
2. Click on the file menu, and select the option import. Expand the general menu, and select the option, Existing projects into workspace. Click ok.
3. Click browse, make sure it says workspace in the folder text, and select ok.
4. Select the project you want to import and click finish.

3. Understanding the Diagnostic Code

4. Understanding the Data Collection