CSA - Files & File Locations

| File / Resource | Version | OS | URL | Directory | Notes |
| --- | --- | --- | --- | --- | --- |
| CTRE Phoenix Installer | 5.2.1.1 | Windows  MacOS  Linux | <http://www.ctr-electronics.com/control-system/hro.html#product_tabs_technical_resources> | programming | <https://github.com/CrossTheRoadElec>  Install only AFTER wpilib is confirmed installed. This are added to the wpilib directory. |
| CTRE Phoenix Framework documentation |  | All | <https://github.com/CrossTheRoadElec/Phoenix-Documentation/blob/master/README.md> | Online only |  |
| CTRE Java API  CTRE C++ API |  | All | <https://github.com/CrossTheRoadElec/Phoenix-Documentation> | Online only |  |
| TalonSRX firmware | 3.3 | All | http://www.ctr-electronics.com/control-system/motor-control/talon-srx.html#product\_tabs\_technical\_resources | firmware | All CTRE firmware is installed with CTRE Phoenix Framework. C:\Users\Public\Public Documents\FRC |
| VictorSPX firmware | 3.1 | All | <http://www.ctr-electronics.com/control-system/motor-control/victor-spx.html#product_tabs_technical_resources> | firmware |  |
| PDP firmware | 1.40 | N/A | <http://www.ctr-electronics.com/control-system/pdp.html#product_tabs_technical_resources> | firmware |  |
| Talon SRX User’s Guide | 2017-02-03 | All | <http://www.ctr-electronics.com/Talon%20SRX%20User's%20Guide.pdf> | reference |  |
| Talon SRX Software Reference Manual | 2017-02-26 | All | <http://www.ctr-electronics.com/downloads/pdf/Talon%20SRX%20Software%20Reference%20Manual.pdf> | reference |  |
| Talon SRX Motion Profile Reference Manual | 2016-01-09 | All | <https://www.ctr-electronics.com/downloads/pdf/Talon%20SRX%20Motion%20Profile%20Reference%20Manual.pdf> | reference |  |
| VictorSPX Quick Star Guide |  | All | Coming soon according to CTRE website |  |  |
| Victor SP & Talon SRC Info Sheet | 2014-08-19 | All | <http://www.ctr-electronics.com/downloads/pdf/Victor-SP-Talon-SRX-Info-Sheet.pdf> | reference |  |
| Magnetic Encoder User’s Guide |  | All | <http://www.ctr-electronics.com/downloads/pdf/Magnetic%20Encoder%20User's%20Guide.pdf> | reference |  |
| Motor Controller Output Testing |  | All | <http://www.ctr-electronics.com/downloads/pdf/Motor-Controller-Power-Testing.pdf> | reference |  |
| CTRE - Code Usage Examples |  | All | <https://github.com/CrossTheRoadElec> | Download from GitHub |  |
| VRM User’s Guide | 2016-01-17 | All | <http://www.ctr-electronics.com/VRM%20User's%20Guide.pdf> | reference |  |
| PCM firmware | 1.65 | N/A | [http://www.ctr-electronics.com/control-system/pcm.html - product\_tabs\_technical\_resources](http://www.ctr-electronics.com/control-system/pcm.html#product_tabs_technical_resources) | firmware |  |
| PCM User’s Guide | 2016-01-24 | All | <http://www.ctr-electronics.com/PCM%20User's%20Guide.pdf> | reference |  |
| Eclipse Java | Oxygen 2 | MacOS  Windows  Linux | <http://www.eclipse.org/downloads/eclipse-packages/> | programming |  |
| Eclipse C++ | Oxygen 2 | MacOS  Windows  Linux | <http://www.eclipse.org/downloads/eclipse-packages/> | programming |  |
| WPI - FRC Toolchains | 2018 - 5.5 | MacOS  Windows | <http://first.wpi.edu/FRC/roborio/toolchains/> | programming |  |
| WPI - FRC Toolchains | 2018 - 5.5 | Linux | <https://launchpad.net/~wpilib/+archive/ubuntu/toolchain-beta/> | Read instructions in URL |  |
| WPILib - Eclipse Plugins | 2018.2.1 | All | <http://first.wpi.edu/FRC/roborio/release/> | programming |  |
| Java JDK | 8u161 | MacOS  Windows  Linux | <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html> | programming | You need to accept Oracle License prior to downloading |
| NI FRCUpdate Suite | 2018.0.0 | Windows | <http://www.ni.com/download/first-robotics-software-2015/5112/en/> | driver | Need to have NI serial number handy for new install. Take photo of your teams serial #. For updates, you do not need to enter serial # when it asks. Also need password: pLaY&4%R3aL! |
| Radio Config Utility | 18.1.0 | Windows | <https://wpilib.screenstepslive.com/s/currentCS/m/13503/l/144986?data-resolve-url=true&data-manual-id=13503> | driver | Link to Radio Config Utility is about 1/3 of the way down the page under the header “Download the software”  IL version is for Israel only |
| GRIP | 1.5.2 | MacOS  Windows  Linux | <https://github.com/WPIRoboticsProjects/GRIP/releases> | programming |  |
| iTunes | 12.7.2 | Windows | <https://www.apple.com/itunes/download> | driver |  |
| Xbox 360 Controller Driver | 1.2 | Windows | <https://www.microsoft.com/accessories/en-gb/d/xbox-360-controller-for-windows> | driver |  |
| Logitech f310 Gaming Software | 5.10.27 | Windows | [http://support.logitech.com/en\_us/product/gamepad-f310/downloads - windowsPnlBar](http://support.logitech.com/en_us/product/gamepad-f310/downloads#windowsPnlBar) | driver | This is NOT the driver, this is the Logitech Gaming Software. Not needed for FRC. |
| NavX Library | 3.0.346 | MacOS  Windows  Linux | <https://www.pdocs.kauailabs.com/navx-mxp/software/roborio-libraries/> | programming | Install only AFTER wpilib is confirmed installed. This are added to the wpilib directory. |
| raspbian OS | 2017-11-29 | Linux | <https://www.raspberrypi.org/downloads/raspbian/> | os | OS images for Raspberry Pi |
| JetPack for Tegra | 3.1 | Windows | <https://developer.nvidia.com/embedded/dlc/jetpack-l4t-3_1> | os | Need to have Nvidia Developer account and accept license. |
| Mindsensors | Downloaded: 2018-1-14 | MacOS  Windows  Linux | <http://www.mindsensors.com/blog/how-to/how-to-use-sd540c-and-canlight-with-roborio> | programming | Used to control SD540 motor controller and CANLight module. |
| Scanse Sweep | 1.0.0-beta1 | MacOS  Windows  Linux | <https://github.com/PeterJohnson/sweep-sdk/releases> | programming | Used to control Scansense Sweep LIDAR |