

CSA - Files & File Locations

| File / Resource | Version | OS | URL | Directory | Notes |
|--------------------------------------|---------|---------------------------|---|-------------|---|
| 7zip | 16.04 | Windows | http://www.7-zip.org | utilities | |
| CTRE Phoenix Installer | 5.1.3.1 | Windows MacOS Linux | http://www.ctr-electronics.com/control-system/hro.html#product_tabs_technical_resources | programming | https://twitter.com/CTR_Electronics Contains firmware for TalonSRX and VictorSPX. 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 | | All | http://www.ctr-electronics.com/downloads/api/archive_4.4.X/java/html/index.html | Online only | |
| CTRE C++ API | | All | http://www.ctr-electronics.com/downloads/api/archive_4.4.X/cpp/html/index.html | Online only | |

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|---|------------|-----|---|-----------|---------------------------------------|
| PDP firmware | 1.40 | N/A | http://www.ctr-electronics.com/control-system/pdp.html#product_tabs_technical_resources | firmware | |
| Talon SRX firmware | | N/A | | | Installed with CTRE Phoenix Framework |
| 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 | | |

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| 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/downloads/firm/PCM-Application-1.65-FRC.zip | firmware | |
| PCM User's Guide | 2016-01-24 | All | http://www.ctr-electronics.com/PCM%20User's%20Guide.pdf | reference | |

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|--------------------------|------------|---------------------------|---|--------------------------|--|
| Eclipse Java | Oxygen 1a | MacOS Windows Linux | http://www.eclipse.org/downloads/eclipse-packages/ | programming | |
| Eclipse C++ | Oxygen 1a | MacOS Windows Linux | http://www.eclipse.org/downloads/eclipse-packages/ | programming | |
| WPI - FRC Toolchains | 2018 - 5.4 | MacOS Windows | http://first.wpi.edu/FRC/roborio/toolchains/ | programming | |
| WPI - FRC Toolchains | 2018 - 5.4 | Linux | https://launchpad.net/~wpilib/+archive/ubuntu/toolchain-beta/ | Read instructions in URL | |
| WPILib - Eclipse Plugins | 2018.1.1 | All | http://first.wpi.edu/FRC/roborio/release/ | programming | |
| Java JDK | 8u152 | 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 |

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| 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. |
| Radio Config Utility | 18.1.0 | Windows | https://usfirst.collab.net/sf/frs/download.do?listReleases/projects.wpilib/frs.frc_radio_configuration_utility | driver | 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 | |
| NavX Library | 3.0.341 | 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. |

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| 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: 2017-12-08 | 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 |