WOBOT 2020 Vision Software Control Document

Known Bugs and requested upgrades (High Priority):

* MAIN PROGRAM – Make something that can indicate the M/s of data going through the TCP coms to ensure that the camera stream is not shut down.
* MAIN PROGRAM – Make it so the user can calibrate the vision system from the dashboard.

Wish List Items (Lower Priority):

* MAIN PROGRAM – need to make it so the config ini file deletes the old file before saving a new file.
* MAIN PROGRAM – Make it so the compression can be controlled from the dashboard.
* MAIN PROGRAM – Make an enumerated type def to hold the allowable ports for the coms back and forth from the vision system and the dashboard.
* MAIN PROGRAM – Make it so we can drag and drop vision targeting code to an attached camera.

2022 April 12

* MAIN PROGRAM – Updated the version to Wobot 2020 Vision Ver 2022.1.0.0
* MAIN PROGRAM – Made the software spawn loops for each camera automatically.
* MAIN PROGRAM – Made the configuration support for each camera easier to add configuration to the camera setup.
* MAIN PROGRAM – It might be nice to have a standard set file for each camera type. The was not required because we can read all the setting right out of the camera now.
* MAIN PROGRAM – Added camera settings to the save configuration.
* MAIN PROGRAM – The WPILIB NT table client does not shutdown when exit is pressed. We looked into this, but it will take a lot to fix this. We would have to rewrite most of the NT table code to fix this issue. We did not fix this.
* We changed the way that the picture and encoded before they are sent to make this more reliable and faster.
* We added the ability to change which camera is streaming on the front panel, so we minimize the load on the network.
* MAIN PROGRAM – Made it so the compression can be controlled from this software.
* Changes made by Kaidrick Smith (student) and Tim Easterling (mentor)

2020 March 06

* MAIN PROGRAM – Updated the version to WOBOT 2020 Vision Ver. 1.0.0