Laser Tracker Personnel

Developed By: Alex Oh, Ryan Taylor, Arianna Santiago

Personnel

Ryan Taylor - Responsible for the construction of the Tracker class, and making sure the camera can properly filter color, locate the laser pointer, bind a contour around it, and provide x,y coordinates on its location within the camera frame.

Alexander Oh - Responsible for the construction of the Distancefinder, Retracer, and integration of code architecture. Performed testing to generate a regression algorithm to determine relative distance of the robot to the laser pointer. Developed compression algorithm for motor logger to solve over-saturated log arrays. Created threads and shared data architecture for concurrently running project classes.

Arianna Santiago - Responsible for constructing the Motorcontrol and Motorlogger classes. Developed algorithm that determines the speed of the car as it follows the laser and how to properly orient the car so that it can continuously follow the laser pointer. Created motor logger that stores motor controls in an array to be referenced by the Retracer class to retraverse trajectory.