

Week One: January 8, 2011 – January 14, 2011

Another hectic season started January 8th for Team Driven, and we have risen to the opportunity, facing yet another exciting challenge. The 2011 game is Logomotion. In this year's game, two alliances compete to place the FIRST logo onto pegs. Each match is two minutes and fifteen seconds long. The first fifteen-second period is the autonomous period. In the autonomous period the robots will have a chance to place a yellow Ubertube on the pegs by following lines on the floor using light sensors or line trackers. When the autonomous period ends, the drivers will take control of their robots and maneuver the game pieces to the ends of the field to score them on pegs. Then during the last 10 seconds of the match, also known as the finale, the robots can deploy a minibot, that races up a pole in the center of the field. The first minibot up its respective pole will receive 30 points. If you would like to view the 2011 game animation, visit <http://usfirst.org/roboticsprograms/frc/content.aspx?id=18762>

On Monday and Tuesday of this past week, the team began brainstorming. We broke the robot into 4 sub-systems; drive train, minibot deployment, arm, and claw. We worked on brainstorming on the different types of mechanisms that were possible for each sub-system. Then for each of the types of mechanisms, we decided the advantages and challenges of each. After comparing all of our ideas on Wednesday, we settled on 6 inch Mecanum wheels for



the drive train, a y-axis arm for the minibot deployment, a 3-joint arm for the robot arm, and a roller claw for the claw. The rest of the week was spent creating prototypes of the various robot features. The chassis was built quickly and the minibot arm was prototyped, broken, re-designed, and re-built. What a great start to this 2011 season!

Upcoming

On Sunday, February 6th, Team Driven will be hosting an Open House along with the Broncobots and Team Titanium. All three Lee's Summit robotics teams will be opening their build shops to the public from 1:00 to 4:00 pm. We can't wait to see you all there!!

Countdowns

Days until the robot is bagged:
37 days
Days until the Kansas City Regional:
54 days
Days until the North Star Regional:
74 days