

## **Viewing Party – September 10, 2016**

Viewed competitions reveal; began brainstorming ideas for the robot design with the team and rough sketch a few.

**Attendance** – Zach Wead, Brett Tooley, Bconnell Sumbles, Leah Kirkpatrick, Austin Spinks, Spencer Kirchgessner, Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – September 15, 2016**

Design Considerations narrowed down to some of the options below:

1. Tank tread design with grabber arm
2. Omni wheels on each side of c-channel

**Attendance** – Zach Wead, Brett Tooley, Bconnell Sumbles, Leah Kirkpatrick, Spencer Kirchgessner, Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – September 21, 2016**

Making sure about the tank steer. We also debated between 4 motors direct drive or 2 motors chain drive.

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – September 29, 2016**

Wheels and motor assemblies complete for chassis.  
The robot is currently in two separate pieces with two groups of working on a different assembly for the robot.

**Attendance** – Zach Wead, Brett Tooley,  
Leah Kirkpatrick, Austin Spinks,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Robot Build – October 3, 2016**

The team has the base chassis assembled together. The battery, phone, and control modules were also mounted in the assembly process.

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Austin Spinks,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Rebel Robotics – October 7, 2016**

Came up with the idea for the rack and pinion systems to lift the cap ball and game piece balls.

**Attendance** – Zach Wead, Brett Tooley,  
Leah Kirkpatrick, Austin Spinks,  
Dawson Brodecky, Lance Macken, Mr.Hurley

## **Rebel Robotics – October 12, 2016**

The weight of the robot is a big concern and we added a wire loom for support.

Attendance –Brett Tooley, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Lance Macken, Mr.Hurley

## **Rebel Robotics – October 18, 2016**

Changed small servos to large ones.

**Attendance** – Zach Wead, Brett Tooley, Bconnell  
Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Mr.Hurley



## **Rebel Robotics – October 20, 2016**

We found out that the on our rack and pinion systems that it doesn't lift high enough. We also found out that instead of 1 motor we need 2.

**Attendance** – Zach Wead, Brett Tooley, Bconnell Sumbles, Leah Kirkpatrick, Austin Spinks, Spencer Kirchgessner, Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – October 27, 2016**

Inverted servos and flipped them. We added a spacer to the left side. In order to accommodate the size of the cat ball.

**Attendance** – Zach Wead, Brett Tooley, Bconnell Sumbles, Leah Kirkpatrick, Austin Spinks, Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – November 2, 2016**

Brainstorms about the insulation of the control modules.

Attendance – Zach Wead, Brett Tooley,  
Leah Kirkpatrick, Austin Spinks,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Robot Build- November 11, 2016**

Starts coding servos for the start and finish.

**Attendance** – Zach Wead, Bconnell Sumbles,  
Leah Kirkpatrick, Austin Spinks,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Rebel Robotics – November 16, 2016**

Codes servos to start and finish.

Attendance – Zach Wead, Brett Tooley, Bconnell  
Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Lance Macken, Mr.Hurley

## **Rebel Robotics – November 21, 2016**

Codes servos to go up faster, not too worried about  
it going down.

Attendance – Zach Wead, Brett Tooley, Bconnell  
Sumbles, Leah Kirkpatrick,  
Austin Spinks, Dawson Brodecky,  
Lance Macken, Mr. Hurley

## **Robot Build – November 29, 2016**

Code servo for the speed of the ball.

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Lance Macken, Mr.Hurley

## **Rebel Robotics – December 5, 2016**

Took the attachment of the ball cap grabber off and reattached it.

**Attendance** – Zach Wead, Brett Tooley, Bconnell Sumbles, Leah Kirkpatrick, Austin Spinks, Dawson Brodecky, Lance Macken, Mr.Hurley



## **Robot Build – December 9, 2016**

Rack and pinion lift using the servo.

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – December 13, 2016**

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Austin Spinks,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Robot Build – December 21, 2016**

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Leah Kirkpatrick,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Rebel Robotics – January 4, 2017**

**Attendance** –Brett Tooley, Bconnell Sumbles,  
Leah Kirkpatrick, Austin Spinks,  
Spencer Kirchgessner, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Rebel Robotics – January 10, 2017**

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Lance Macken, Mr.Hurley

## **Robot Build – January 18, 2017**

**Attendance** – Zach Wead, Brett Tooley,  
Bconnell Sumbles, Leah Kirkpatrick,  
Austin Spinks, Dawson Brodecky,  
Lance Macken, Mr.Hurley

## **Robot Build – January 21, 2017**

### **Bedford FTC Qualifying Tournament**

**Attendance – Zach Wead, Brett Tooley, Bconnell  
Sumbles, Leah Kirkpatrick,  
Austin Spinks, Spencer Kirchgessner,  
Dawson Brodecky, Lance Macken, Mr.Hurley**





