



FIRST ROBOTICS MILILANI HIGH SCHOOL TROBOBOTS



2015 FRC BUILD SEASON

February ended with the completion of the 2015 FRC build season. In this six week long build season we were able to successfully brainstorm, fabricate and build a practice and competition robot that would be able to pick up totes in this years game Recycle Rush. At the start of February, we were going in to the fifth week of build season and continuing to fabricate the competition bot. As we did the year before, the entire robot would be polished. So as each metal piece finished being machined, it was handed over to a member of the team to be sanded by hand. Each part required many hours of sanding having to go through 320, 440, 600, and 1000 grit sand paper. After a final polish, every metal piece held a mirror finish.

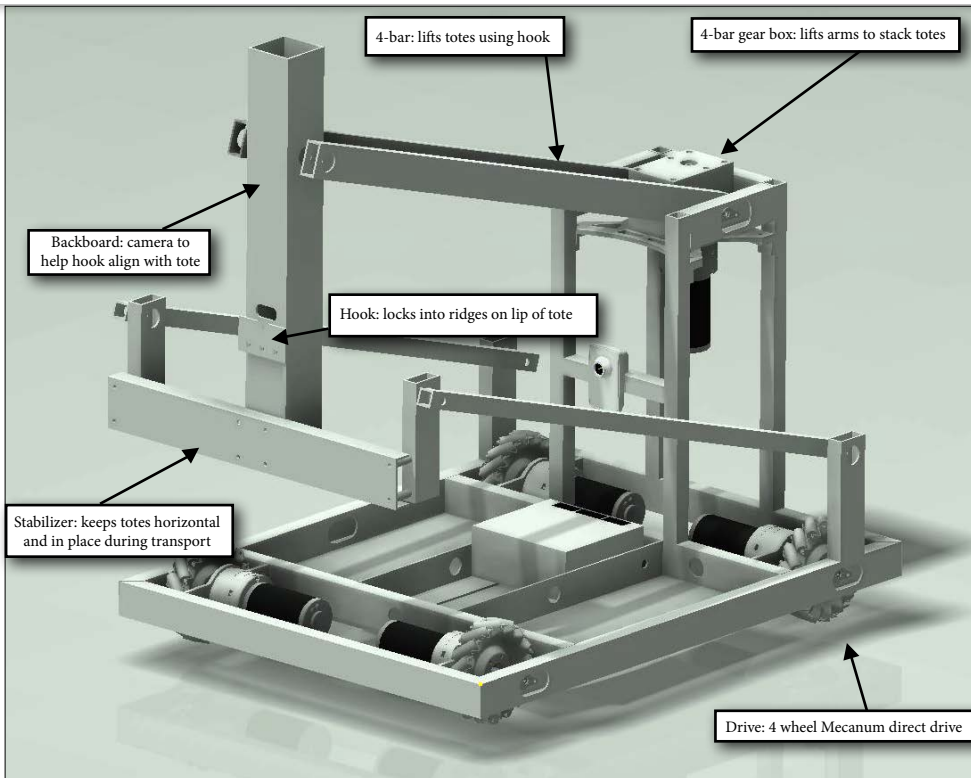
As Bag n Tag day neared, the final pieces of the robot were put together and the electrical sub-team started to test. They were able to test all of the aspects of the robot locating possible problems that they would need to fix using the practice robot. It was determined that an encoder would be needed for the retrieval arm. The competition robot was

finally Bagged and Tagged at 10:00pm, the earliest ever that our team has finished!

The TroboBots continue to come in after build season to make adjustments to the practice robot and have driver practice. Drivers will train to manipulate the retrieval arm for the totes, stacking and moving the totes onto the platform.

We look forward to competition on March 27-28, 2015 to put the robot to the true test at the Hawaii FRC regional. This year, the regional will be held at the Stan Sheriff Center in Honolulu. 36 teams ranging from China to New Jersey will be there and attendees will get to see teams compete with their robots stacking totes and recycle bins or fixing their robot between matches. Admission is free to the public and we would love to meet you and tell you about our program and what we did this build season. See you at the competition!

Look to the next page for our robot specifications and abilities or our website at www.mililanirobotics.org



UPCOMING EVENTS

- **Showcase at MMS STEM Night**
Friday, March 6, 6pm-8pm
Mililani Middle School
- **Showcase at Mililani Public Library**
Friday, March 13, 3:30pm-4:30pm
Mililani Public Library
- **Robotics Week at all McDonald's of Hawaii locations**
a portion of the profits from Egg McMuffin & Egg White product sales will go to FIRST Robotics teams in Hawaii
March, 16-22
- **Showcase at Mililani Mauka McDonald's**
Saturday, March 21, 7am-9am
Mililani Mauka McDonald's
- **FRC Hawaii Regional**
Thursday, March 26
thru Saturday, March 28, 8am-6pm
Stan Sheriff Center

For more information, please visit us on Facebook and Youtube at Mililani High School FIRST Robotics

MILILANI CARNIVAL



On February 20-22, 2015, the TroboBots showcased their 2014 FRC, 2014 FTC, and 2015 FRC practice robot at the Mililani Carnival. Along with enjoying the rides and festivities at the carnival, participants were able to drive one of our robots. Children enjoyed manipulating the robot to get it into position and throwing the yoga ball into a tote. Through this event and tell a multitude of people about our program and the benefits of FIRST. We also used this opportunity to talk about our STEM camp that would be happening in the summer. Parents with third to fifth grade students could sign up for a STEM Camp interest form so they would get notified when sign ups were released.

OUR GENEROUS SPONSORS

