



# MORT in a Minute



[www.mort11.org](http://www.mort11.org)

The Team Newsletter of Mt. Olive Robotics Team 11

[www.usfirst.org](http://www.usfirst.org)

**First WeWillBeBest, Then We WillBe First!**

February 22<sup>nd</sup>, 2011

Mt. Olive High School, Flanders, New Jersey

Volume 6 – 8th Edition



## GROUP REPORTS – Week 6: Build Season

3-DStudio MAX – 3D-Studio Max completed the storyboard and submitted the project.

Business – The Business team has been working to put together the sixth volume of MORT in a Minute. They also have been working on the MORT website. The Chairman’s team finished the essay and submitted both the essay and short answer questions for the Chairman’s Award.



AutoDesk – The Autodesk sub-team completed the driver station in the way that the drivers requested. They also completed the electrical board and put the finishing touches on their other cads, some of which were to be displayed at Rollout.

DriveTrain – This week Drive Train put together the second drive train and brought all of the robot components together. They also worked to cut down on the weight of the robot, and did so by hogging out front and back plates and changing the side plates. Ultimately, the target weight was reached and the team now has two functioning robots.



Electrical – This week, Electrical finished wiring both robots and put all the pneumatics to form the end effector to the compressor and solenoids for final operation and practice. They also rebuilt the electrical board for the final robot to make it sturdier and more efficient.

End Effector- During the final week of build season End Effector successfully complete the practice and final robots. They finalized construction on the practice bot claw and assembled the various pieces that were manufactured for the final bot. Motors and gear ratios on the lift, wrist and roller assembly were tweaked to achieve the desired speeds.

Programming – The team now has a working drive train and end effector. It can be controlled through a human player and joystick, but members will be using the coming weeks and the practice robot to get working presets for the arm, to test the camera functionality and to develop the best Autonomous mode code.

### CAPTAINS' CORNER:

Every single member has done a fantastic job with the build season this year! This robot is one of our best, and we could not be prouder! We are so excited for the upcoming competition season and hope to do well!

### MESSAGE FROM MR. DiCICCO:

Well it's down to the wire; two more days and we will be completely done. We are all very tired, so it is extra important that we watch what we are doing so no one gets hurt and we finish on time. Once the robot is in the crate and out of our hands, we can practice, practice, practice until we find all the robot's tendencies before our first regional. Great job by everyone involved in the build season.

### MESSAGE FROM MR. BODMER:

Our 2011 build season has come to an end! Everyone did an excellent job helping the team get to this point. We overcame many obstacles over the past 6 weeks and still made our deadline! We should all be proud of this year's robot and all the time and effort we put forth. We're now onto the Competition season, and if the build season is any indication of what we can expect, we should be in for a great competition season!

### DATES TO REMEMBER:

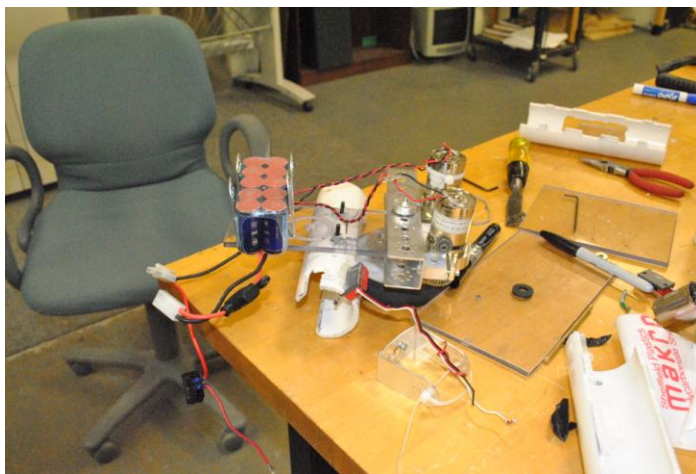
February 22nd – Ship Date

March 23rd -27th – Palmetto Regional

April 6th -10th – Virginia Regional

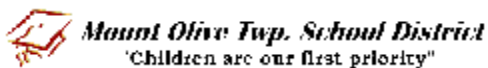
April 27th – May 1st – St. Louis (no auto bid)

### PICTURE GALLERY:





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HELPING TO PROTECT THE ENVIRONMENT ONE COOLER AT A TIME

