



# 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 7<sup>th</sup>, 2011

Mt. Olive High School, Flanders, New Jersey

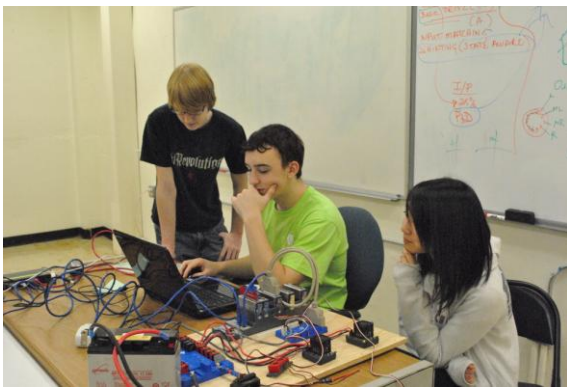
Volume 4 – 8th Edition



## GROUP REPORTS –Week 4: Build Season

3-DStudio MAX – During week three, the animation team worked on fixing and editing their submission project.

Business – The Business team has been working to put together the fourth volume of MORT in a Minute. They also have been working on the MORT website. The Chairman’s team has been working on the Chairman’s essay and has begun to plan a social for February for all members in our collaboration.



AutoDesk – This week in Autodesk, the sub-team was given the task of blueprinting parts, including the final portion of the drive train design. Members also drew several parts for the Electrical sub-team, and the entire polycarbonate plate for the electric board was blueprinted.

DriveTrain – During week 4, DriveTrain continued to make the frame and customize wheel parts. A press was brought in to bore holes into the pulleys. Other members worked on fixing the lathe and other machines and things around the shop.



Electrical – This week in Electrical, members started to gather electrical equipment for the sister robot. The 2007 robot was also fixed and is now fully operational and can be used for testing end effectors.

End Effector- End Effector continued to make parts to assemble the robot, including the claw, banebot motor, and arm, and parts were attached to the robot. Inventory was taken of what parts are made and what still needs to be made.

Programming – The Programming sub-team continued working on their multiple projects. DriveTrain programmers were able to successfully set a PID loop on the Jaguar speed controllers to match motor revolutions. End Effector programmers began writing code for that portion of the robot as well. The Camera team worked on tracking algorithms and thanks to programmer Patrick Jameson’s implementation; they can now successfully communicate between the cRIO and laptop. Members working on restoring the 2010 robot made progress by matching motor speeds and working to allow it to be driven.

## CAPTAINS' CORNER:

We have to continue with the tremendous effort! While the weather has been a great hindrance in the build season thus far, staying focused on the task at hand will counteract the time lost during snow days.

## MESSAGE FROM MR. DiCICCO:

We are at the end of Week 4. We need to readdress our deadlines and work to the best of our ability to meet our deadlines. We need to be extra careful to do things right the FIRST TIME, as mistakes at this point will be disastrous, so there is no time to fool around. If we stay on task, we will succeed!

## MESSAGE FROM MR. BODMER:

We are in the final stretch of our build season and we've been tested again by Mother Nature this past week. Even with the loss of 7 meetings due to inclement weather, we are moving forward and still on track to meet our February 22nd ship date! Moving forward, we must stay focused and take the time needed to ensure that the job is being done correctly. Everyone's continued dedication is greatly appreciated and if we keep up the great work we can be proud of our efforts!

Quote of the Day: In times of great stress or adversity, it's always best to keep busy, to plow your frustration and your energy into something positive. ~ Lee Iacocca

## DATES TO REMEMBER:

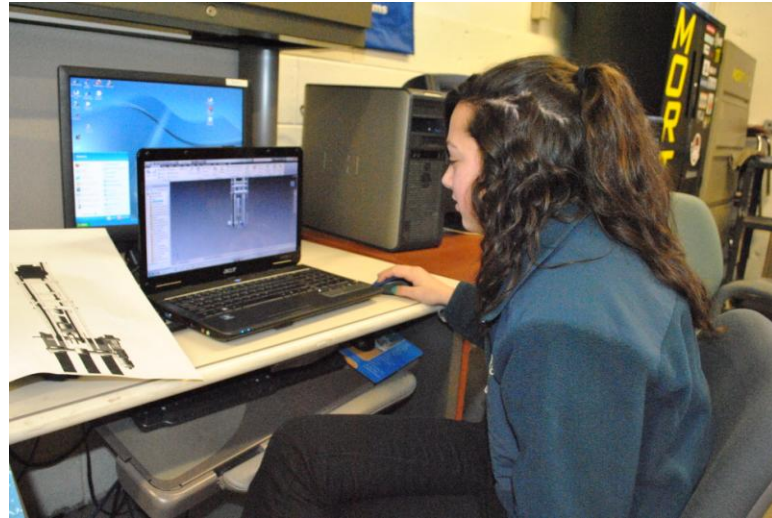
February 22nd – Ship Date

March 23rd -27th – Palmetto Regional

April 6th -10th – Virginia Regional

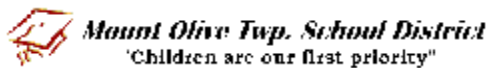
April 27th – May 1st – St. Louis (no auto bid)

## PICTURE GALLERY:





John and Margaret Post Foundation



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HELPING TO PROTECT THE ENVIRONMENT ONE COOLER AT A TIME

