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The Team Newsletter of Mt. Olive Robotics Team 11



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January 13, 2018
Season

Mount Olive High School, Flanders, New Jersey

Build

With the start of Build Season, MORT is operating rigorously to sort out strategies for the new game. MORT University provided our team with experience and training to tackle the game as soon as the release. Now teams are focused on strategizing and testing prototypes to ensure that the best option can be accounted for. Each subteam has a plan and is organizing accordingly in order to get the maximum amount of work done. To ensure this season's success, groups are using innovative thinking to brainstorm new ideas and strategies. MORT is working collectively to come to a common goal for the season.

The Electrical Team is working hard while assisting mechanical with their prototyping strategies. Their responsibilities included making motors and a pneumatic board for the robot this week. Additionally, they are assisting programming with testing the robot programs that programming has prepared. Once the robot strategy is decided and ready to be built, electrical will be ready to tackle the next steps in wiring the robot.

Mechanical has been very excited for this build season this year; they created prototypes and tested different strategies. They broke down strategies into three different groups (intake, lift, and climber) to make it easier for them to test them. Towards the end of the week, the prototypes are reviewed and then evaluated for the next step for the robot. Mechanical also plans to present the prototype to the team by next week!

Computer Aided Design (CAD) plan to accomplish a lot by the end of this week by having the team focus on prototyping with mechanical. CAD is

also creating sketches for mechanisms (conceptual drawings) for the robot. They are basing concepts off of drive trains from previous years. Lastly, they plan to have rough dimensions for spacing for the mechanisms done by the end of the week so that they can present them to the team, while working with mechanical towards the next step of the robot.

Programming has been working in tandem with mechanical in order to create an initial operating system for the robot. They have spend the last few weeks updating all of the software on the motherboard they received from electrical to the latest 2018 versions, and applying it to the prototype physical parts of the robot, which are then sent to Mechanical to be assembled and connected. Some of the parts that Programming has been working on specifically include a code for a mounted camera, as a well as a vision detecting system that will guide the robot through obstacles in Competition Season. Programming is well on track for its goal of finishing the prototype code for the end of the week.

Build Season is off to a productive and hard-working start. Every team is working in tandem to achieve their goals for the week, and for the whole season. At the end of this week the prototype robot will be finished and ready for testing, and with the data gathered MORT will be able to perfect our robot further. MORT U prepared the team for this season, and with hard work and some team spirit, there won't be any team that can stand in our way this year.

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