

## Team 2530 Prepares for Wisconsin Regional Competition-March 24-26

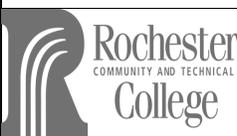
Team 2530 hosted a kick-off event for 20 FRC teams on January 9th, where the 2016 challenge was revealed. In *FIRST STRONGHOLD*<sup>SM</sup>, two Alliances of three robots each are on a quest to breach their opponents' fortifications, weaken their tower with boulders, and capture the opposing tower. Operating in both autonomous and teleoperated modes, robots score points by breaching opponents' defenses and scoring boulders through goals in the opposing tower. During the final 20 seconds of the round, robots may surround and scale the opposing tower to capture it.



With the robot now "in the bag," signaling the official end of build season, Team 2530 is making final preparations to attend the Wisconsin Regional Competition in Milwaukee. 54 teams from Wisconsin, Minnesota, Illinois, New York and as far away as Turkey will compete against each other. (Meet our Robot, on page 2)

An animated game video is available at <http://youtu.be/VqOKzoHJDjA>

## Team 2530 and RCTC build Exciting New Partnership



This season, Team 2530 is excited to announce a new partnership with the Precision Manufacturing Program (PMP) at the Rochester Community & Technical College (RCTC), as a sustainable fabricator for our robot parts. Through this partnership, RCTC students as well as our students are learning the full impact of a 360 degree business cycle. The RCTC students have an opportunity to apply their skills in precision manufacturing by machining parts from our CAD designs, while Team 2530 learns the importance of manufacturing requirements, time management, and clear communication.

## Thank you Team 2530 Sponsors!

Team 2530 must raise 100% of the funds to buy materials to build the robot, for entry fees and travel expenses for the competitions we attend. **It's easy to make a tax-deductible contribution to Team 2530:**

- Mail a check to "FRC Team 2530", Century School, 2525 Viola Road, NE, Rochester, MN 55906, or
- Email Jocelyn Woog at [jwoog@charter.net](mailto:jwoog@charter.net)

**Thank you sponsors for your generous support!**

**"Miracle Max" Diamond Tier: (\$1500 +)**

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Peoples Energy Cooperative Services

Rochester Community and Technical College

**"Inconceivable" Platinum Tier: (\$500-1499)**

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CECAC

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Rochester Commercial Banks

**"As You Wish" Gold Tier: (\$100-499)**

Wayne Bothun ♦ Thielen Family

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Panera Bread

- Visit our Website: [www.frcteam2530.org](http://www.frcteam2530.org)

- Contact us at: [info@frcteam2530.org](mailto:info@frcteam2530.org)

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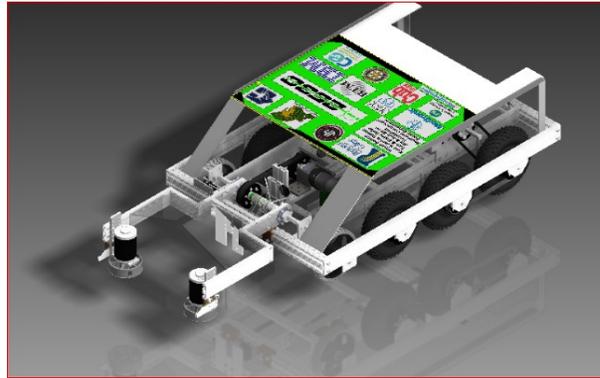
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## Meet our Robot, Dread Pirate Roberts

**D**read Pirate Roberts (DPR) is designed to traverse obstacles in the playing field and to shoot boulders into the opposing alliance's tower to score points.

Here are some key features:

- **Drivetrain:** The robot has a six wheel train with dropped center wheels that allow for a zero turn radius. The 8" diameter pneumatic wheels provide for easy maneuverability over obstacles and excellent surface gripping. In front of the main drivetrain lies two free-spinning 6" diameter high-grip wheels, so that the robot can maneuver over any stationary defense from both directions, and most moving defenses.
- **Lifter:** The lifter component uses two belt-driven motors to lift up the shooter and manipulator assembly. Three leg torsion springs assist with the lifting. The lifter can turn the shooter assembly to match any angle from horizontal to vertical with exceptional precision.
- **Shooter:** The shooter assembly consists of a ball shooting/capturing wheel assembly, and a portcullis lifter component. Rotated by the Lifter Assembly, it can shoot the ball at any angle from 0° to 90° from horizontal, from high to low goals from almost any position on the opposing team's courtyard.



*(In acknowledgment and with thanks to Liz and Ben Mroz for providing information about DPR)*

## Team 2530 Supports Awareness of Teen Mental Health

**I**n an effort to support awareness of the important issue of teen mental health, Team 2530 has crafted the "InconceivaBOW" to distribute to FIRST Robotics teams at the Wisconsin Regional Competition. Lime green is the ribbon color for mental health awareness.



According to the National Alliance for the Mentally Ill, (NAMI), approximately one in five teens are dealing with mental health issues. Team 2530 hopes that wearing the InconceivaBOWS will promote awareness of mental health issues and serve as a show of support for teens who are currently facing these challenges. For more information on teen mental health, please visit [www.nami.org](http://www.nami.org).

### *Come and cheer on Team 2530!*

Join Team 2530 as we have fun storming the castle!

The Wisconsin Regional will be held at UWM Panther Arena 400 W. Kilbourn Ave, Milwaukee. Doors open at 7:45 AM on Thursday. Admission is free!

If you can't attend, catch all the fun on the livestream webcast. More information is available at <http://www.wisconsinregional.com>

Team 2530 will also be live-tweeting the events @Team2530. Hope to see you there!

- Visit our Website: [frcteam2530.org](http://frcteam2530.org)
- Contact us at: [info@frcteam2530.org](mailto:info@frcteam2530.org)

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