

THE PK MONTHLY

VOLUME 1 | ISSUE NO. 4 | APRIL 2019



THE
POWERNIGHTS
ROBOTICS TEAM

Connect with The PowerKnights



COVER PHOTO: Real NASA space suits on display during NEFIRST District Championship @ WPI.

THIS MONTH:

DISTRICT CHAMPIONSHIPS

Team 501 ended the FRC Season competing at NE First District Championships. Now on to Off-season events like River Rage.

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BURGERS AND FRIES

This month's restaurant fundraiser was a great success! An extra-tasty fundraiser @ Red Robin in Manchester.

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FIRST RISE 2020

For the 2020 season, FIRST partners with Lucasfilm for FIRST Rise through the Force for Change program. We will be competing in the FRC competition Infinite Recharge.

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SEASON CALENDAR

Get the latest information about this years competitions and team events.

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Worcester Polytechnic Institute in Worcester, MA, site of the First NE District Championships for Team 501.



TOP: Home spirit from GHS wishing us good luck at champs. Shout out to Mr. McBride for giving us some love.

BOTTOM: Our pit assignment at WPI.

District Championships

April 10th - 13th | Worcester Polytechnic Institute, Worcester MA

FRC 501 went over to Worcester, MA for New England District Championships. We played our hardest in some really tough competition and had tons of fun. It was a good end to a good season, and we're very happy we were able to make it this year, and hope to do so again in 2020.

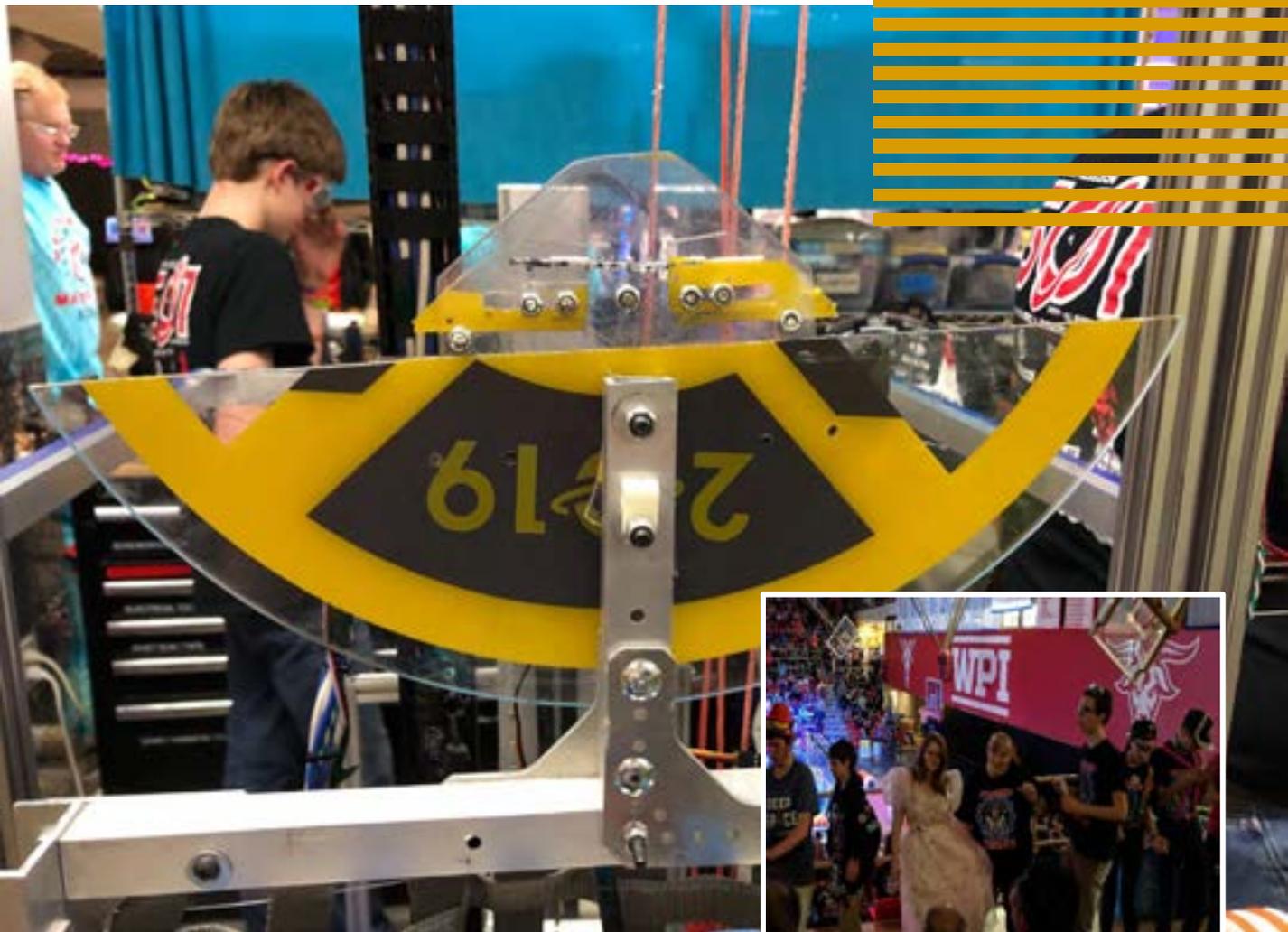
Ranking: #57

Selected: N/A

Overall Record: 4-8-0

Results: Ranked #57

<https://www.thebluealliance.com/event/2019necmp>



Our robot's new hatch mechanism, "The Hatchening".

District Championships

April 10th – 13th | Worcester Polytechnic Institute, Worcester MA

We got to see Dean Kamen give an inspirational speech about FIRST and college that was pretty awesome, especially for our three senior who we'll miss next year. Finals were absolutely breathtaking, and everyone played well, one notable feature was a vacuum arm that team 501 used to their great advantage for double HAB 3 climbs.

We also finished our new hatch mechanism, "The Hatchening", although sadly not in time for any matches. It'll have to wait for off-season to make our hatch dreams come true.



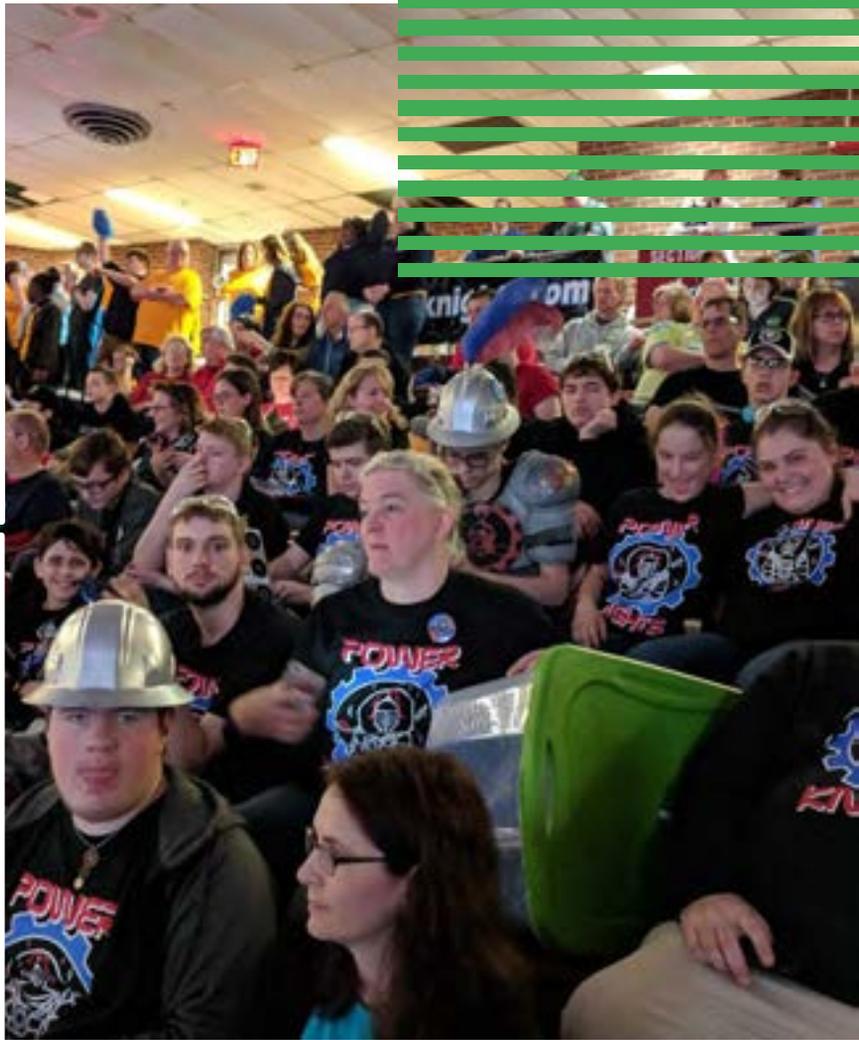
TOP: 501 and others dancing in the stands.
BOTTOM: Dean Kamen speaking at WPI.



TOP: Our robot shoots a ball into a cargo bay covered with a hatch panel we put on.

MIDDLE: Team 501 going up for the Level 3 HAB climb.

BOTTOM: Student team members work quickly to repair the robot between matches.



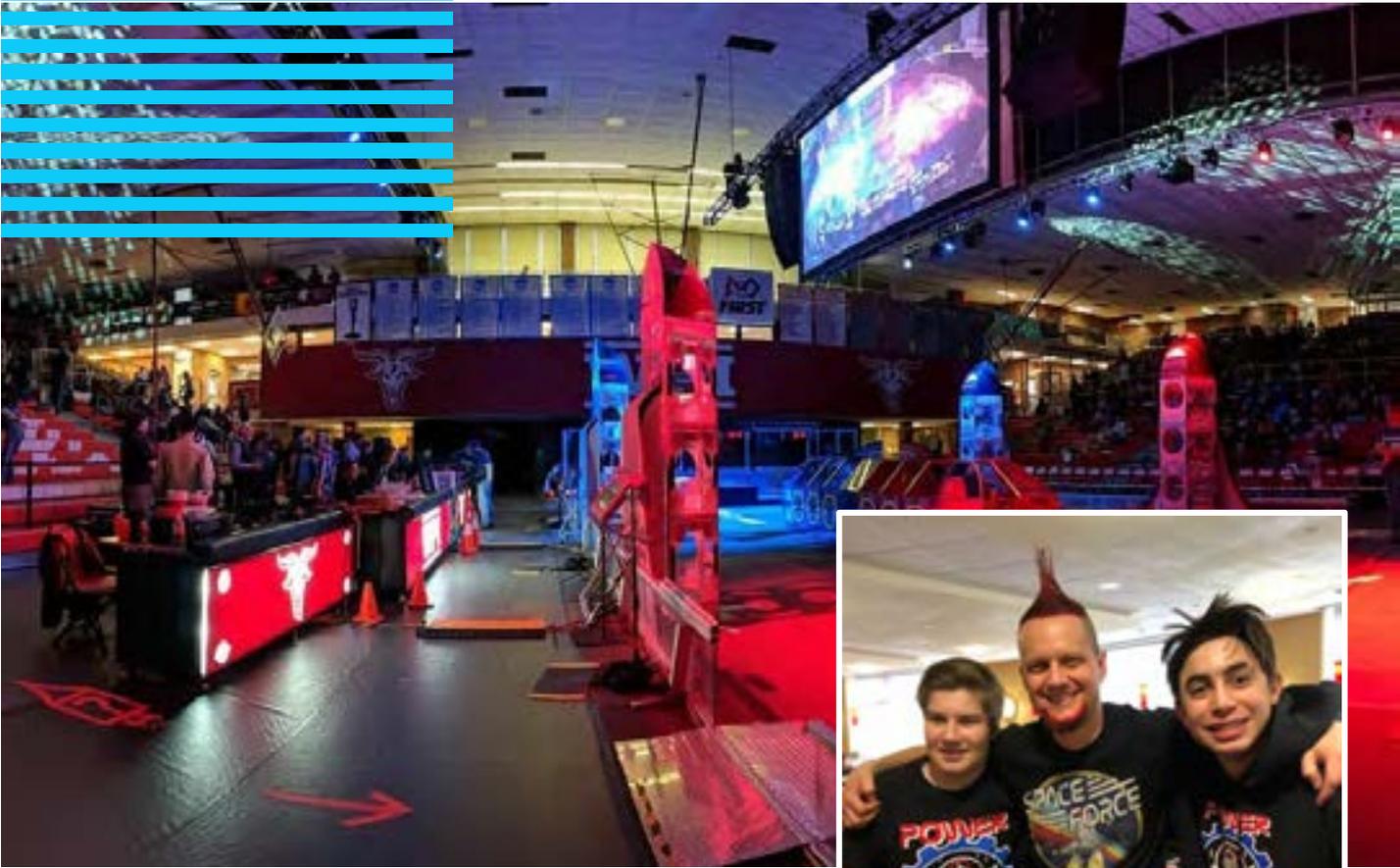
Team 501 chilling in the stands between matches.

District Championships

April 10th - 13th | Worcester Polytechnic Institute, Worcester MA

We kept our game up at District Champs, placing hatch panels, shooting cargo balls, and climbing up to Level 3 to take home matches. We won a good number of matches and gave a good showing with our new ball intake that uses NASCAR cargo net to hold the cargo.

Two of our programmers attended a vision seminar courtesy of team 2877, the Ligerbots. It was a great experience and we hope to use what we learned for next year's robot.



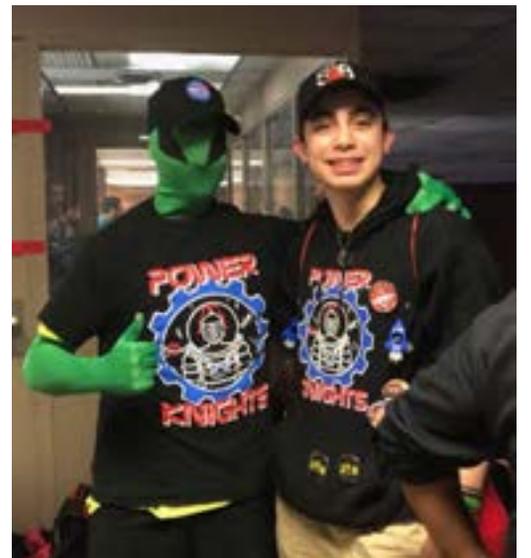
NEFIRST District Championship is a really amazing event that truly inspires. An amazing set up and lights display ahead of the finals.

District Championships

April 10th – 13th | Worcester Polytechnic Institute, Worcester MA

Part of what makes District Championships so amazing is both the level of competition and intensity of the event. With intense matches and last minute thrilling action, but also the camaraderie that has developed during the season. With our many Co-NEFIRST Teams.

Sitting and cheering in the stands with FRC238 Crusaders (one of our RiverRage Co-Hosts along with 131 CHAOS), Practicing with FRC1922 Oz-Ram on Double HAB 3 Climbs and seeing old friends win (FRC558 – District Champions). It is just a great atmosphere.



TOP: Cameron LePine, Derek Wood and “Angry Eric” Master of Ceremonies take time for a quick Photo.

BOTTOM: Cameron LePine, a 501 team member, with team 4905 Andromeda One’s mascot.





Burger Fun-Raiser!

April 18th | Red Robin, Mall of New Hampshire | Manchester, NH

Team needed a little recharge after three very long and hard-charging District events. All is well that ends in fundraising While eating delicious burgers! The team took time to spend Time together and celebrate The season and the many fun moments as a whole. Thanks Red Robin!



TOP: The Charles Family enjoying some finely crafted gourmet burgers during the Fun-Raiser.
MAIN: Mentors Charles Phillips, Josh Heger and Tracy Phillips stop to pose for a end of meal photo.
MIDDLE: Not detracted by a Manchester West HS Softball Game (Win!) Team member Paige McNamara and teammate grab a couple burgers to celebrate.
BOTTOM: Mentor Stacey Edgar and Team member Ryan Edgar host friends during Fun-Raiser.

A portrait of Mark Hamill, the actor who plays Luke Skywalker, looking directly at the camera with a serious expression. He is wearing a dark jacket over a dark shirt. The background is dark with some blurred lights.

Mark Hamill



Luke Skywalker (Mark Hamill himself) made a hugely welcomed appearance to announce the FIRST and Star Wars: Force for Change partnership at World Championships in Houston, TX.

2020 Game Announced.

FIRST has announced that, for the 2020 season, they will be partnering with Star Wars: Force for Change. Team 501 will be competing in the FRC competition, FIRST Infinite Recharge and we'll also hopefully be mentoring two FTC teams in their competition, FIRST Skystone.

We're excited to see what the next competition brings and we expect it to be another great season in 2020,.

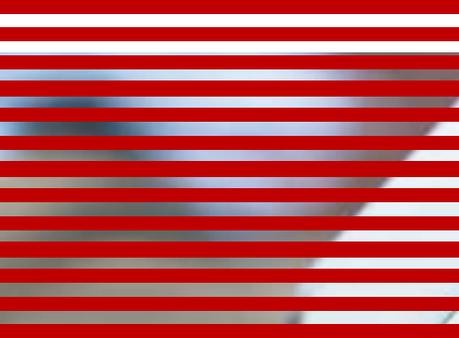
<https://info.firstinspires.org/first-rise-2020>
<https://www.starwars.com/force-for-change>
<https://youtu.be/oXU4jbGRZNE> (Video)

TOP: Announced at this year's World Championships in Houston, was the collaboration between FIRST and Star Wars: Force for Change.

BOTTOM: 2020 Season theme "Rise: The Force is Building" is the new theme for 2020.

BELOW: Next year's FRC game will be called "Infinite Recharge", we can't wait to see the challenge in early January.





KEY DATES 2019 FRC SEASON



- JAN05** | 2019 Season Kickoff
- JAN07** | Build Season Starts
- FEB16** | Week Zero Event
- FEB19** | Bag & Tag Robot
- MAR16-17** | NorthShore Event
- MAR30-31** | UNH Event
- APR10-13** | NE District Champs



2019 OFFSEASON EVENTS

- JUN01** | Mayhem in Merrimack
- JUN07-09** | BattleCry #20 @ WPI
- JUN29** | Summer Heat
- OCT** | Beantown Blitz
- OCT** | Bash @ the Beach
- OCT** | NH Governor's Cup
- OCT** | RiverRage 23
- NOV** | Battle of the Bay

UPCOMING EVENTS



MAY 2019



5.8 | All Team Meeting (Goffstown H.S.)
Full team meeting with student members and parents. Season SWOT Analysis.



5.15 | FUNDRAISER: Margaritas (Manchester, NH)
5-9pm 5/15 at Margaritas, downtown Manchester



5.22 | End of Season 501 Banquet / Awards Night (Sawyers, Goffstown, NH)
6-9pm @ Sawyer's Function Hall. The banquet is to celebrate season, team activities and honor our seniors.

JUN 2019



6.1 | OFFSEASON EVENT: Mayhem in Merrimack (Merrimack H.S.)
First offseason event of 2019 season hosted by our friends FRC166 Chop Shop.



6.8 | OFFSEASON EVENT: BattleCry #20 (WPI, Worcester, MA)
WPI hosts BattleCry #20, one of the off-season's largest event.



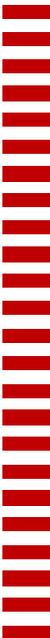
6/12 | All Team Meeting (Goffstown H.S.)
Full team meeting including Student Officer Elections.

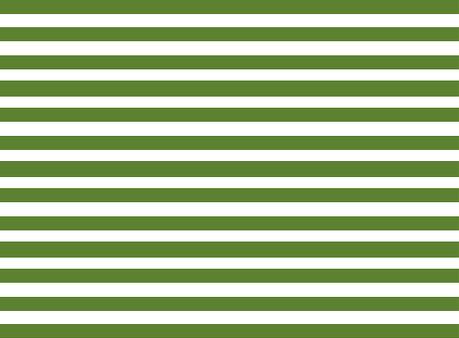


6.25 | FUNDRAISER: TBD
Restaurant FUN-Raiser, location TBD.



6.29 | OFFSEASON: Summer Heat (Portland, ME)
FRC58 Riot Crew hosts South Portland HS and Maine's premier FIRST event.





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OUR AFFILIATIONS

Team 501 is proud to be affiliated with the following key organizations that make it possible for our students to participate in FIRST Robotics Competitions (FRC) each year.



For Inspiration and Recognition of Science and Technology is an international youth organization that operates the FIRST Robotics Competition. In 1989, Woodie Flowers and Dean Kamen became the founders of this amazing organization. Their goal was to teach young and inexperienced kids about engineering and technological skills and fields, as a way to get more of them interested. Today the organization includes a total of 7,000+ teams world-wide.



4-H has a long history of supporting robotics programs through 4-H clubs, after-school programs, camps and curriculum. Through robotics, 4-H'ers learn teamwork, problem-solving, critical thinking, engineering and design. The 4-H robotics program inspires young people and develops an early interest in robotics engineering and technology.



Goffstown High School, located in Goffstown, New Hampshire, United States, serves the towns of Goffstown and New Boston. Goffstown High School Joined Manchester West High School in 2007 to form an even stronger award winning team. Go Grizzlies!



Manchester High School West, known as West High or West, is a public high school located in Manchester, New Hampshire. What is today our beloved team 501, The PowerKnights! Was first founded in 2001 Go Blue Knights!

THE POWERKNIGHTS ROBOTICS TEAM

FRC501 The PowerKnights Robotics Team, a 4-H Team
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