

LO-ELLEN ROBOTICS

FRC TEAM 4069

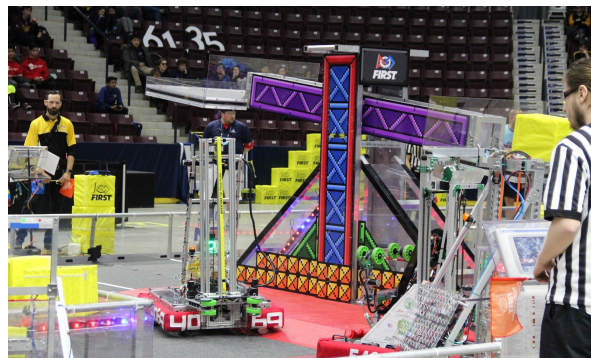
Pre-Season Newsletter

2018 SEASON WRAP UP!

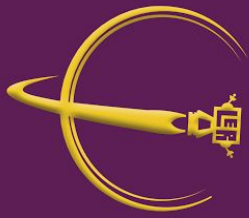
Figure 3-22: POWER CUBE



This year Lo-Ellen Robotics competed again hundreds of different teams at FIRST Power Up competitions. We faced many obstacles and put forth our best efforts in this exciting new game. While there were difficulties, we worked as a team to do the best we could, and we had a blast! We ranked 28th out of 32 competitors at our first regional meet in North Bay, but bounced back at our second meet in Hamilton, finishing 7th out of 38 competitors. At the Hamilton meet, we adjusted our design and changed our intake as we hadn't taken into account all of the possible flaws, such as worn out covers on game cubes, with a vacuum system. Our success in Hamilton qualified us for the 2018 Ontario Provincial Championship, located at the Hershey Center, where we continued to strive reaching the quarterfinals of the Provincial Championship. Nevertheless, we are very proud of our team for fighting through difficulties with ease and showing everyone how quickly we can bounce back from a punch. Through the ups and downs, our team stuck together and had an all round amazing and eventful season. We have learned so much individually, and as a team, and we can't wait to show the world what we got in the new season!



You can check out our full results at <https://frc-events.firstinspires.org/2018/team/4069>

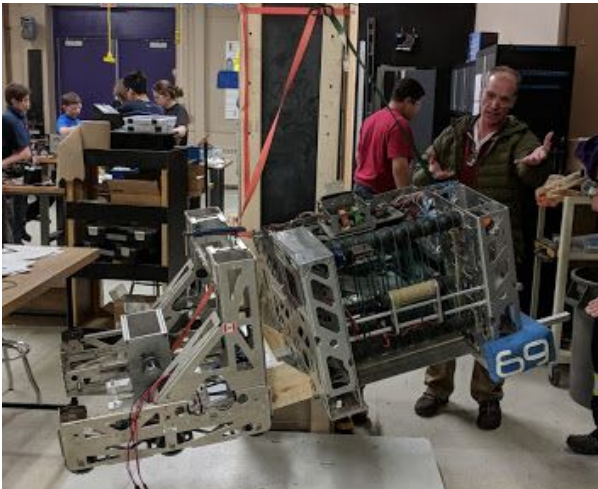


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Introducing Our New Season!

Lo-Ellen robotics is extremely excited to start the new season, and introduce the new theme... DEEP SPACE. Our team has already been trying to guess what new and fun challenges we will face in the new season. We have already been meeting, and recruiting new members to join this awesome team. After our recruitment days at the school, we are pleased to say that we have an abundance of new recruits, excited to learn about what FIRST Robotics is all about. We are excited to say that the team will be participating in an off season event to get new members

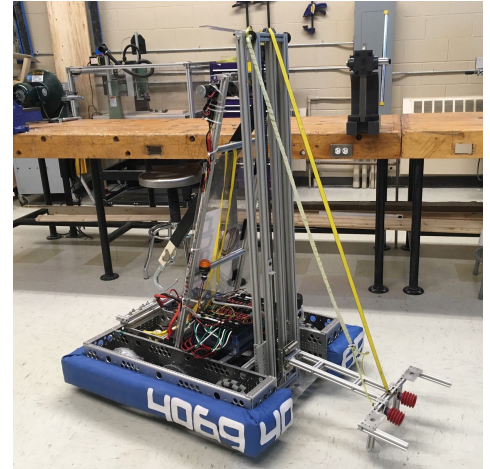


prepared for the real season. We will be attending the STEMley

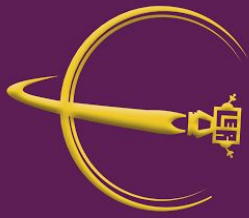
Cup event hosted by teams 4039 and 5406 in Hamilton, Ontario. Here we will be competing against other teams in good spirit, creating connections, and teaching new members about how competition works. This will take place on November 2-3, 2018.

We are also excitedly planning our EDIT lab open house in December. While we still don't know what's

to come in the new season, we're already working to make it the best season ever. We are determined to succeed, and there's nothing that can stop us. We're ready to show the world what we're made of!



Link to FRC DEEP SPACE teaser: <http://info.firstinspires.org/2019-frc-teaser>



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Social Media

During every competition, we will be updating our social media platforms with our progress throughout the events. You can follow us on these channels to stay updated with our progress:

Twitter: @loellenrobotics (<https://twitter.com/loellenrobotics>)

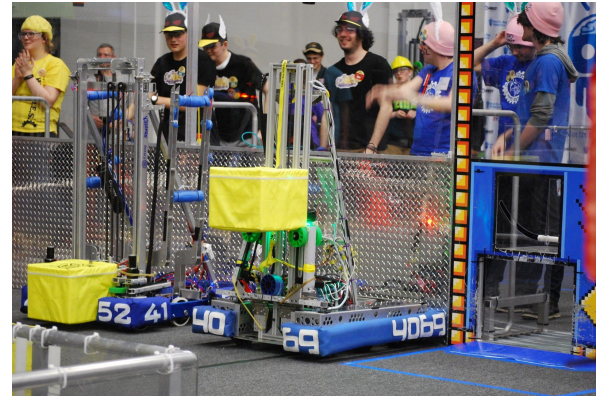
Instagram: @team_4069

(https://www.instagram.com/team_4069)

Facebook: Lo-Ellen Robotics

(<https://www.facebook.com/loellenrobotics>)

Live Streaming: watchfirstnow.com (<https://watchfirstnow.com>)

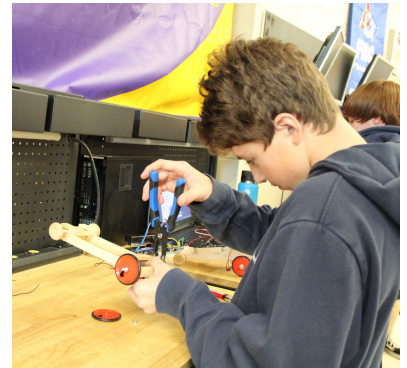


EDIT Lab - An Update

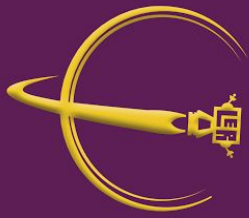
Back in December of 2017, Lo-Ellen Park officially unveiled the School's new Engineering, Design and Innovative Technology (EDIT) Lab. This lab was designed to encourage students to get involved in STEM (Science, Technology,



Engineering & Mathematics), and help prepare students for engineering and other technical studies program in university, college or the workplace. With this lab, we have an interdisciplinary studies class to help support students who are interested in the fields relating to STEM. The Grade 12 university course meshes robotics with



project - based assignments where students design and build their very own unique creations in a friendly classroom environment. Students are able to explore their interests in the field of STEM with the support from talented teachers to help them find what their passion is within STEM. And, since the new course is going so well with current students senior students, the school has introduced more engineering related courses for Grade 9 and 10 students this academic year to help them jump start their work in the STEM field.



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Sponsor Feature: Ionic Engineering

The title sponsor of Lo-Ellen Robotics is Ionic Engineering. They are greatly appreciated throughout our team for their continuous amazing support throughout the years. Last year, they provided \$5000 as a monetary donation and an additional \$5000 in structural materials and robot components. They have also provided engineering expertise and we have applied it to our design

processes.

Ionic is made up of a world class team of designers and industrial engineers, who specialize in cathode stripping machines, anode preparation machines and much more. With their experienced machine builders, they possess the team to design and build practical, affordable automation for any rugged industrial environment. They are experts in material handling and possess the know-how to design robust handling automation for your not-so perfect products. The staff at ionic are multi-disciplined in engineering with civil, electrical, mechanical, controls, project management etc. They pride themselves on being leaders with the latest in robotics, PLC, laser and vision technology. In short, from concept to completion, they are the single point of contact for your plant solution. Once again, thank you to Ionic Engineering who supported us this season - we couldn't have done it without you! Make sure to check out Ionic's website to find out more: <https://ionic-eng.com/>

Brendon Matusch - Our World Champion!

In May of this year, Brendon Matusch won the platinum award for the best intermediate project as well as the best project award at the 2018 Canada-Wide Science Fair (CWSF) held in Ottawa. Addition to that, he also won a fully-funded trip to compete in the European Union Contest for Young Scientists for September held in Dublin, Ireland. At this event, Brendon finished 1st place along with another fellow Canadian. His project was a self-driving electric go-kart, which included developing software that was required to find the centre of the road and steer to remain there, recognize and stop at stop signs, and learn to perform better as it drives. Brendon Matusch is an important member of the Lo-Ellen Robotics team and everyone is incredibly proud of him!

