

PARADIGM SHIFT



Pewaukee High School Robotics Team Newsletter

July 2019



Paradigm Shift Attends Laser Lights Off-Season Event

The first annual Laser Lights Off-Season Event was hosted by Team 2077 Laser Robotics from Kettle Moraine High School where 13 different teams from all over Wisconsin competed in a light-hearted and fun competition. After the competition season ends in April, the off-season begins. Part of the off-season is used for competitions which can range from light-hearted and small, like Laser Lights, to fiercely competitive and regional sized, like the Indiana Robotics Invitational.

Our team's purpose at Laser Lights was to give members a chance to learn and be involved in things they are interested in and to try something new. Most regular pits duties (like robot repair and tuning) were conducted by students who had not previously been on the pit crew. **This off-season event gave the team members the opportunity to learn what the pits were like during competition.** We also gave a couple of our students who were interested in driving the robot next year the opportunity to drive in a competition-like environment.



The competition is run just like a normal regional, with qualification matches followed by elimination matches. **Our team's goal was not to win this event but to use the event as student training time and to try out new strategies.** With that being said, our alliance lost in the semi-finals. But it wasn't all competition. There were human robot matches, where a team would send a student to play out a match on the field as if they were a robot. There were also mentor matches where mentors from each team drove the robot instead of students.





Summer Activities

Summerfest:

On July 2nd, Paradigm Shift attended a Summerfest robotics demonstration hosted by Team 537 Charger Robotics. **The purpose of this event was to show the people attending Summerfest what FIRST Robotics is all about.** The demonstration was definitely successful in this goal as TMJ4 aired a segment on the event, showing some footage of robots competing as well as interviews with members of our team! [\(Click here to watch the interviews\)](#) Just like at Laser Lights, we gave interested students the opportunity to drive the robot as well.



Summer Projects:

- ▶ The Build Team's main project involves researching and testing new motors. These new motors are called NEOs and they are smaller, more powerful, and lighter than the previous motors we used. We have also fixed a broken 3D printer that was donated to us by a former mentor.
- ▶ The Business Team finalized last seasons sponsor thank you's. **They are currently developing a branding plan, updating the business plan, team brochure & team website.** Along with scheduling fall fundraisers and preparing for the August Back-To-School open house demonstrations.
- ▶ The Code Team is working with the Electrical Team, testing out the new NEO motors to run a previously used drive train.



Community Outreach:

- ▶ Outside of what we do for our team, we also give back to our community through volunteering and sponsor demos. This month Paradigm Shift did a typical presentation and demonstration to the Pewaukee School District board members, Power/mation, Innovative Construction Solutions. Also, **Generac invited four different local robotics teams, whom they all sponsor, to a "robot day" where their employees could see the FIRST robots in live action & talk with the students.**
- ▶ Team 1259 volunteered at the Pewaukee FIRST Lego League registration. During that event, **our team members mentored incoming FIRST Lego League students.** This mentoring entailed showing the new students how to use a robot and solve last years game challenge. This gave the incoming students the opportunity to see what they could experience in their upcoming season.

