

Team 4327

Program Goals

Developed 2017



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Mission Statement:

To cultivate intergenerational connections, employable skills, personal empowerment and community engagement in Battle Creek via STEAM innovation and the principles of FIRST.

Vision Statement:

An established program both in structure and in physical manifestation for students to experience and be inspired by robotics competitions. Each new cohort of students learn from the former and are mentored in each field by dedicated professionals serving as mentors. Q Branch Robotics will be a consistent competitor on the world stage as well as a significant source of positive change in the Battle Creek community.

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2017-18 School Year Growth Goals

Goals for the 2017-18 school year were developed during the 2017 postseason +/- meeting with team members and mentors.

Green - Completed

Red- not completed

Goal	Promote team members involvement within the school and utilize school video news for promotion, recruitment, and growth.
Indicators of Success	Develop recruitment video prior to build season to be aired on Lakeview High School Channel 101 news. Develop, print, and place locker posters during build season. Air season follow-up episode on Channel 101 news.
Timeline	<p>May 2017 Recruitment videos are developed (both mentors and students)</p> <p>May 30, 2017 Recruitment video for mentors is placed on facebook and shared to sponsors, recruitment video for students is aired on channel 101 news</p> <p>June 1, 2017 Potential member meeting</p> <p>January 20, 2018 Posters are designed.</p> <p>January 27, 2018 Posters are printed.</p> <p>February 3, 2018 Posters are placed on student lockers throughout school.</p> <p>April - May 2018 Connect with Channel 101 staff in the school for episode.</p>
Reflections	



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Goal	Establish Chairman's Team with video/photographic team, outreach team and public relations team as well as a dedicated historian
Indicators of Success	<p>Chairman's video is developed and submitted within time frame.</p> <p>Blog on website, Instagram, Facebook, and Twitter are all updated regularly via the public relations team.</p> <p>Historian is able to organize and develop records of team season and compile past records as needed for chairmans presentation and essay. Records demonstrate program growth and impact on students.</p>
Timeline	<p>November 2017 Strong business team is developed with engaged students. Business team is given access to social media.</p> <p>December 2017 Business team is broken up into sub teams that focus on Chairman's Video, Chairmans Essay, and Public Relations. These teams are supported with mentorship. Historian is identified and provided needed resources and support via mentorship. Gantt Chart is developed for Chairmans Team.</p> <p>January 20, 2018 Video is filmed and essay is drafted.</p> <p>January 27, 2018 Video is edited and essay is proofread by mentors.</p> <p>February 8, 2018 Chairman's submission is completed and submitted.</p>
Reflections	

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Goal	Involve Superintendent Blake Prewitt by doing an interview with how he has seen FIRST impact students; use in Chairman's Presentation and Robot 101 episode.
Indicators of Success	Superintendent Blake Prewitt is contacted and interviewed by team members for Chairman's Video.
Timeline	<p>December 2017 Superintendent Blake Prewitt is contacted.</p> <p>January 20, 2018 Interview is done and video taped.</p> <p>January 27, 2018 Video is edited and included in Chairman's video.</p>
Reflections	Mr. Prewitt comes from Ferndale (FRC 1025, IMPI Robotics) where he experienced the great impact of a strong FIRST team. Focus on the impact having a K-12 family of teams has on developing students at Lakeview.

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Goal	Parent led booster club to organize fundraising efforts as well as organizing food and team support during competitions
Indicators of Success	A lead veteran parent is able to work directly with the coaches and rally parents through phone calls and email when there are needs for parent support such as volunteering to provide meals or time at events.
Timeline	<p>October, 2017 Mandatory parent meeting.</p> <p>November, 2018 Lead parent organizes FTC State Championship concessions volunteering.</p> <p>December, 2018 Parents staff FTC State Championship concessions event.</p> <p>January, 2018 Parents aid in field element build. Parents supply lunches on Saturdays during build season.</p> <p>March & April 2018 Parents staff the concession stand at the FRC Lakeview District Event. Parents aid in transportation to state championship and aid with student supervision.</p>
Reflections	<p>This goal has proven challenging as we have a large team of rookie members in 2017-18.</p> <p>We need to reach out to parents for this role at the end of the this season so we can establish this better with a veteran parent.</p> <p>The lead parent needs to be provided with contact information for team parents early including access to the remind app.</p> <p>The lead parent needs to be identified before the mandatory parent meeting.</p>

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Goal	Competition Team Schedule so individuals know when they need to be scouting or helping the team in other areas (map out like Team 2337)
Indicators of Success	Schedule is developed before first event. Schedule is available to students both in paper and electronically. Students adhere to the schedule.
Timeline	February 2018 Schedule is developed and made electronic for first event. March 2018 Schedule is adhered to in week 1 event. Modifications are made as needed for the week 6 event. April 2018 Schedule is adhered to in week 6 event. Reflections are completed and modifications are made for future events as needed.
Reflections	

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Goal	Team Promotion Projects - Robotics 101 - Three Episodes Episode 1: Building a Custom Drivetrain Episode 2: Using QFD Episode 3: Scouting 101
Indicators of Success	All three videos are published on youtube and linked to social media by May 2018.
Timeline	<p>2018 Build Season Episode 1 script written and filmed by mechanics, CAD, and business team. Begin work on episodes 2 & 3.</p> <p>2018 Competition Season (open bag time) Episode 2 script written and filmed by secondary members. Episode 3 script written and filmed by secondary members.</p> <p>April - May 2018 Episodes are edited and published on youtube and shared on our social media outlets.</p>
Reflections	

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Goal	Grow district wide program by adding additional FLL Jr., FLL, and FTC teams at elementaries and middle school.
Indicators of Success	Coaches are recruited for teams at each level and in each district school and each team is able to complete their season and compete at an event.
Timeline	<p>September - October 2017</p> <p>Kick off the Jr. FLL, FLL, and FTC season with a district wide kickoff supported by the FRC team as mentors.</p> <p>Recruit coaches in schools of need by contacting building administrators.</p> <p>Be visible in the district to aid in recruitment of team members and coaches by attending sporting events, registration days, and parades.</p>
Reflections	We were able to successfully recruit the coaches and start these teams. Next year we need to look at more focused mentoring and expanding.

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Goal	Hold combination car wash and can drive to raise funds for lower level teams
Indicators of Success	Event is held either in fall of 2017 or spring of 2018.
Timeline	<p>April, 2018 Set a date for the event with a rain date backup. Contact possible places to have event. Notify lower level coaches so they can communicate with their teams.</p> <p>May or June 2018 Advertise for event via local schools and social media. Host event.</p>
Reflections	Monetary goals will be added for future events once this one provides a baseline.

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Goal	Present a remote-access webinar on building a custom chassis (west coast drive) to help newer teams expand their repertoire.
Indicators of Success	Development of webinar plan. Includes vision of end-user experience as well as an electronic slide presentation (Google Slides) for reference. Execution of live event via Twitch stream. Advertised to local teams.
Timeline	<p>January 2018 Video documentation of development of WCD chassis for 2018 robot. Includes CAD work, machining and final fabrication.</p> <p>February 2018 Video documentation of driving WCD chassis.</p> <p>March 2018 Video documentation of WCD chassis during competition. Includes work in pits.</p> <p>May 2018 Development of reference webinar for other teams to make their own custom chassis. Combination of COTS and custom parts. Must include the finer detail hiccups. Emphasis on 4327 style drivetrain preference (4 traction / 2 omni), belts with 36T pulleys, WCD, WCP gearboxes, CIM v MiniCIM v RS775Pro, etc.</p> <p>August 2018 Webinar held on Twitch and advertised to all local teams. Feedback sought from all participants.</p>
Reflections	

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Goal	Continue to increase social media presence.
Indicators of Success	Social media followers increase as well as the likes and shares we achieve on Twitter, Instagram, and Facebook.
Timeline	Throughout season: Update posts regularly. Like, follow, and share other robotics related posts. Communicate and respond to other robotics related posts and users. Continue to always be positive and excited. Participate in social media contests and events as presented. - FRC 5846 Kickoff Countdown
Reflections	Consider adding snapchat. In September of 2014 our Facebook page reached 50 followers there was not an Instagram or Twitter account. In December of 2017 our Facebook page had 174 followers, Instagram had 620 followers, and Twitter had 555 followers.

Goal	Heavily promote program to International Students at start of school year
Indicators of Success	At least five international students on engaged on the team.
Timeline	August 2017 Present to international students at their orientation. Provide brief literature to aid in translation issues. Show a video to aid in understanding.
Reflections	This went very well. We currently have five international students on the 2018 team. We had a few others but they were unable to join due to ride concerns with their host families. This may be something we can look into in the future.

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Goal	Mandatory safety class during the preseason.
Indicators of Success	All students attend a safety class in the preseason and are able to pass an assessment.
Timeline	August 2017 Research possible ideas and solutions. September 2017 Schedule and communicate with team and parents.
Reflections	This is a goal we need to continue to work on. We faced challenges in recruitment during the timeframe we aligned to this as well as having a high volume of rookie team members that needed training. We could possibly add this in on our team building day or as part of our preseason camp but we need to prioritize this as a goal in the 2018-19 school year.

Goal	Attend and compete in the West Michigan Robotics Invitational (WMRI) in October to help new members understand the FIRST atmosphere and culture
Indicators of Success	Team attends and is able to be competitive.
Timeline	August 2017 Register October 2017 Compete
Reflections	We registered for this event however there was a band conflict on the weekend and we could not attend due to low number of team members able to commit. We hope to be able to attend next year.

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5 Year Plan Growth Goals

Developed at the end of the 2017 season

Goal:	Battle Creek Community Robotics Center. Host to several teams as well as levels of Robotics in and around the Battle Creek area. Similar to that of the Kettering University Center.
Current Progress:	June 2017 We met with BC Vision to seek their support. August 2017 We have been researching information on local teams and communicating with BC vision as they ask questions for further information. January 2018 We have another meeting with BC vision.
Goal:	Bi-annual trip to out-of-state regional event during week 1 or 2.
Current Progress:	2018 Season We tried to keep week 1 & 2 open however we were waitlisted for the events we wanted and due to exam conflict and band conflict we had to take a week 1 FiM event. We hope to try for this again next year.
Goal:	Increase involvement in community events by inviting other teams to robot-zone type areas (i.e. a STEM area in the Zoo Boo) Community night and/or STEM Career Night to promote all local FIRST teams including feeder programs to recruit mentors for area teams and build connections.
Current Progress:	2018 Season We are continuing to build relationships with local teams and build our Jr. FLL, FLL, and FTC community in our district so we can successfully organize an event like this.



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Goal:	Increase involvement in preseason training to build connections for all local teams with organized events.
Current Progress:	2018 Season We finalized our preseason training and ironed out improvements from the 2017 preseason training. 7209 was invited and able to attend with mentors and students. We also invited rookie team 7219 but they were unable to attend.

Goal:	Welcome Night in December for parents & sponsors at the start of the season in addition to the February Sponsor Night.
Current Progress:	2018 Season Due to the new venue with the FTC State Championship this did not happen this year. However, it is possible if we move our team building event earlier in the preseason to try this in the 2019 preseason.

Goal:	Expand team member involvement to other local schools who are unable to support at FTC team.
Current Progress:	2018 Season Our vision for this is adjusting as some other schools have started rookie teams. We are hopeful they can sustain and we will support them. We will revisit this goal as their teams progress.

Goal:	Form a Relay for Life Team with other area teams.
Current Progress:	2018 Season This event was researched after it was concluded in August. Therefore we will see if we can get our team involved in August of 2018 and hope to expand in the following seasons.

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Goal:	Food Bank Fundraiser with local teams competing in another activity (blind volleyball, dodgeball, towel volleyball).
Current Progress:	2018 Season We are continuing to build relationships with local teams and build our Jr. FLL, FLL, and FTC community in our district so we can successfully organize an event like this.

Goal:	Robotics coloring book for feeder teams to promote first.
Current Progress:	2018 Season