



FIRST TEAM 107 R.O.B.O.T.I.C.S.

Holland Christian High School

Our Mission

To provide a Christian learning environment in which students can advance their understanding of engineering, science, technology, and business resulting in meaningful career directions.

Our History

Founded in 1997, FIRST Team 107 has been a proud participant of FIRST Robotics for over 26 years. The team began through Holland Christian High School and was founded by Metal Flow Corporation, a loyal company who still supports us to this day.

Although the students, some of the mentors, and fans have changed over the years we are proud of the heritage we have. Our core values and principles have remained the same since our team was formed. Many students have either returned as mentors, stayed in close contact with the team, or have gone on to promising careers because of their rewarding experience. Team 107’s mentors are no different. We have been blessed to have many long-time mentors who encompass and instill a passion not only to students but virtually everyone they meet. As a student simply said this past year, “we are just one big happy family”.

Our Team

Rookie Year	1997
Team Location	Holland, Michigan
School	Holland Christian Schools
Student Demographics	Total Students: 12 <ul style="list-style-type: none"> • Male Students: 7 • Female Students: 5
Mentor Demographics	Total Mentors: 11 <ul style="list-style-type: none"> • 4 Mechanical Design Mentors • 2 Software Development Mentors • 2 Lead Build Mentors • 1 Electrical/Pneumatics Mentor • 1 Machining Mentor • 1 Logistics Mentor
Satellite Teams	Total Satellite Teams: 2 <ul style="list-style-type: none"> • 1 FIRST Tech Challenge Team at Holland Christian Middle School • 1 FIRST Tech Challenge Team at Zeeland Christian Middle School



Our Goals

Besides having fun, our mission is that all students who participate in the FIRST robotics program leave with a better understanding of how to work within a group of many different ideas and personalities, know how take on a challenge and see it to its completion, and gain knowledge that will benefit them in their future. Our current team goals to achieve this mission are as follows:

-  100% Student Participation
-  Utilize our resources sustainably and responsibly
-  Start more FIRST teams in our area
-  Establish and maintain relationships by showing *Gracious Professionalism* to all
-  Give back to our community that gives so much to us
-  Create a visible and consistent team brand throughout all 107 operations



The Benefits

Student Benefits

- Learn the basics of brainstorming ideas and problem solving.
- Learn the basics of communicating ideas and public speaking allowing students to gain leadership skills and self- confidence.
- Having access to the FIRST Scholarship program with over 80 million dollars in scholarship opportunities.

Mentor Benefits

- Sharing knowledge with future leaders in STEAM.
- Providing students with hands-on experience that will stick with them long after they have graduated.
- Getting to learn alongside the students.

Sponsor Benefits

- Being recognized as a supporter of FIRST and STEAM.
- Company logo displayed on sponsored robots and announced at the event.
- Getting to interact with students that will be looking for jobs in STEAM in the future.
- Other incentives highlighted in the Sponsor Recognition Program (Page 6)



Sustainability Goals

For Team 107, there are two aspects of the team that must be maintained to ensure that Team 107 is sustainable for years to come. One area that must be maintained is student participation. As a team, we must make sure we are reaching younger students to secure future team members. The second area that must be maintained is our relationship with our team sponsors. Team 107 does fundraise; however, our biggest financial gains are from sponsor donations. We have been working on our sustainability by being actively involved in both the FIRST Tech Challenge and with our Team Sponsors.

What is FIRST Tech Challenge (FTC)?

In 2014, we realized that to have a consistent group of students joining Team 107, we had to make robotics available to students at Holland Christian Middle School. This would allow early exposure of robotics and the FIRST program to future Holland Christian High School Students. Our original FTC Team, Team 8529, was started by Team 107 Alumna, Nicki Bonczyk. The team consisted of Holland Christian Middle School students in 7th and 8th grade. The FTC Program gets the middle school students engaged in building and programming a smaller sized robot and excited for the High School Robotics Program. Since starting the team in 2014, we have had a 86% retention rate of students graduating from the FTC Program and moving on to Team 107. This has had a significant impact on the growth of Team 107. On average, we see 5 students added to Team 107 every year that have previously participated on the FTC Team.

In 2018, the FTC Program grew by inviting Zeeland Christian Middle School to join the R.O.B.O.T.I.C.S. family. In just one year the FTC program grew from 8 students to 20. Instead of cutting students from the FTC Team (there is a 15 person limit per team), we started a second team to accommodate all the students. When Team 15339 was started, it was made up solely of 6th Graders.



Sponsor Engagement

The primary funding for Team 107 is through sponsor donations. We have been very fortunate to have continued support from many of our original team sponsors. In 2015, we established a sponsor's recognition program to better recognize sponsors for their team donations.

TEAM 107 Sponsor Recognition Program

Maroon Level Sponsorship - Donations of \$249 or lower

- 107 Will receive a thank you letter from the team
- 107 Will be invited to the Team Open House
- 107 Will be invited to team competitions
- 107 Will be included in 107 Newsletter and other publications

Steel Level Sponsorship - Donations of \$250-499

- 107 Will receive all Maroon Level items
- 107 Will be recognized on team social media platforms (Facebook, Twitter & Instagram)
- 107 Will receive an end of the year team gift

Bronze Level Sponsorship - Donations of \$500-1499

- 107 Will receive all Steel Level items
- 107 Will have company logo displayed on the team website

Silver Level Sponsorship - Donations of \$1500-\$2499

- 107 Will receive all Bronze Level items
- 107 Will have company logo displayed on the robot

Gold Level Sponsorship - Donations of \$2500-\$4999

- 107 Will receive all Silver Level items
- 107 Will have company verbally recognized at all events
- 107 Will have premium company logo displayed on the robot

Diamond Level Sponsorship - Donations of \$5,000 or More

- 107 Will receive all Gold Level items
- 107 May request the robot to be displayed at the company or out for demos at company quarterly meetings, picnics, etc
- 107 Will have deluxe company logo on robot, pit displays, and other team media
- 107 Will receive team swag upon request



Community Outreach

FIRST is about more than robots. Team 107 also has goals for reaching out and engaging in our community. Our outreach includes working within the community of FIRST and our community of Holland, Michigan. We host the West Michigan District event, and many of our mentors and alumni volunteer at other events, filling key roles from districts to the World Championship.

Along with volunteering at season events, Team 107 also runs an offseason event in our community. Team 107 has been hosting the West Michigan Robotics Invitational since it started over 10 years ago. The event is held at Zeeland Public School, only fifteen minutes from Holland Christian High School. The teams are primarily located in West Michigan, but we regularly have teams from Indiana and Canada attend the event. The event is a great way for us to showcase what the local schools have accomplished in robots as well as advertise how great the FIRST Robotics program is.



An Important part of being a leader in the FIRST community is sharing it with others. When we moved into iCademy School we helped them start a FIRST Robotics Competition Team. We are excited to have had the opportunity to work with iCademy and it has been rewarding to see their team grow. The team started in 2015 and is still going strong.

One of FIRST's core values is *Gracious Professionalism*. When at competitions, it is easy to show others *Gracious Professionalism*. This can be by helping them with parts or repairs at the event. During the build season and offseason, we help other teams by providing them with a place to practice. Many teams in our area do not have the space to practice with their robot. Since we have been blessed with a full-sized playing field, we invite other teams to come in and practice whenever they would like. In the years we have had the field, we have hosted over 25 different teams for practice.



In November, JR donated this 36x52-foot practice field to the Holland Christian High School and Innocademy FIRST Robotics teams. The field, located at Innocademy in Zeeland, allows teams all over West Michigan to come practice, prepare, and troubleshoot their robots before they reach competitions. Teams from Grand Rapids, Kalamazoo, and Newago have already come out to use the JR-sponsored field!

Our Community

It is important to our team to not only grow and sustain our FIRST Community, but we also want to give back to our community of Holland, Michigan. We participate in a variety of community outreach opportunities including Kids Food Basket, Feeding America, Community Action House, Relay For Life, Vacation Bible School, and Holland's Tulip Time Festival.

In 2015, one of our mentors was diagnosed with Cancer. To show our support for him, our team decided to partner with the American Cancer Society's Relay For Life. The event is a six hour fundraiser with the goal of raising money to find a cure for cancer. Our team fundraises for the organization prior to the events as well as participating in the event. During the event, students, mentors, and team supporters take turns walking laps about the event track to show that no one walks alone with cancer. So far, we have donated over \$10,000 to the American Cancer Society!

We also like to find events where we can bring our robots along with us. Vacation Bible School is a day camp for K-5th grade students. Since we have team members volunteering at this event, they invite the robotics team out to run demonstrations for the students. We have brought both our High School and Middle School robots to these events.

Our biggest community event is participating in the Holland Tulip Time parade. The Tulip Time festival brings over 700,000 people to Holland each year. The big highlight of the festival is the Saturday Parade. This is a two-mile parade route through the center of Holland. Well over 50,000 people come out for the parade. Since 2012, Team 107 and Team 74 have collaborated on a parade float. We have taken home several of the top awards for our float designs, and introduced FIRST Robotics to almost 1 million people.

Since 2019, we have been even more involved in Tulip Time. Our team organizes a Science and Technology event at the festival, which is held specifically for younger children. We setup both FTC and FRC fields with robots running and available for the kids to drive.



Social Media

Our team is very excited to share with others what we are accomplishing and what we are up to during the year. Our team has developed a website where individuals can find photo libraries, season details, and other important information. Our team Facebook page has been our greatest marketing tool for sharing what we do and how the season is going. With over 500 followers, we can instantly share all things Team 107. On Facebook, we can tag sponsors and our school in different posts, so that they can help share and get the word out about Team 107. We also have a presence on Instagram, which help us to reach almost 900 people.

Team 107 R.O.B.O.T.I.C.S
April 9 at 5:35 PM · 🌐

WE HAVE WON THE 2022 JACKSON EVENT!
What an amazing time! We had a fantastic alliance and they played wonderfully! What great weekend!!

Finals Matches				
Finals 1-1 🕒	3322	107	4776	75
	2611	5205	5260	93
Finals 1-2 🕒	3322	107	4776	106
	2611	5205	5260	98
Finals 1-3 🕒	3322	107	4776	80
	2611	5205	5260	72

👍❤️😄 You, Betsy Oosterhouse and 70 others
16 Comments 5 Shares

👍 Like 💬 Comment ➦ Share

Demonstrations and Displays

Participating in FIRST Demonstrations and taking the robot on the road is another way we market our team. At the end of the competition season, the robot goes on a sponsor tour. We set up a display at our sponsor’s facilities so that the robot can be shown off to those that support us. We have also had the opportunity to be visited by various VIPs and Politicians, such as Former Governor Rick Snyder during the Tulip Time Festival.

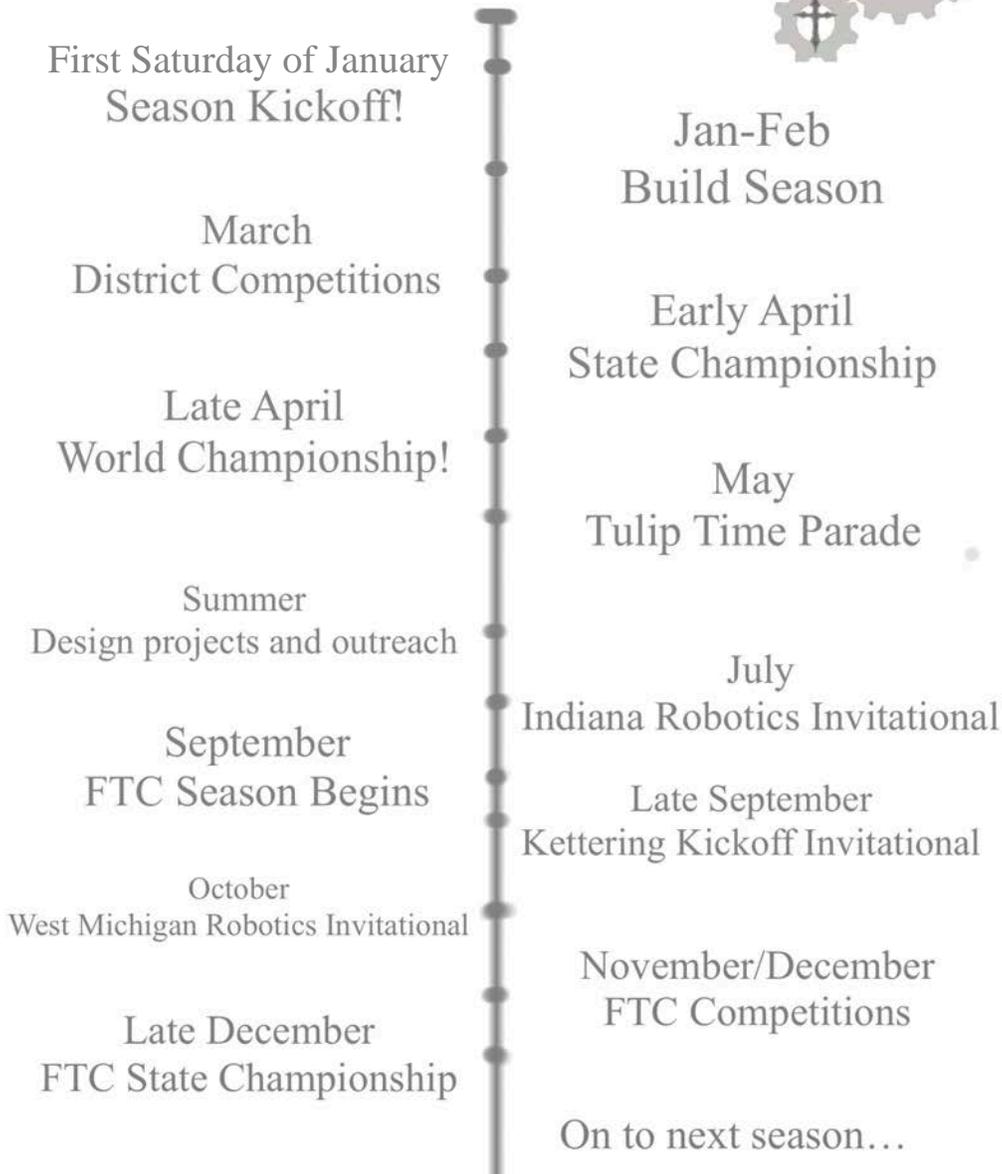


Our Timeline

Team 107 is a year-round FIRST Robotics Team. We engage Team 107 students all year with design projects, outreach and team bonding activities, even outside the typical January-April FIRST Season. The timeline below shows what a typical year looks like for Team 107.

TEAM 107

Timeline



Our Finances

Team 107's budget is made up of finances from three different areas; member contributions, sponsors and fundraisers. Sponsorships are obtained from local businesses and are our primary source of income. Team 107 students and mentors also do their part by hosting fundraisers and reaching out to the community for financial help. Team members are asked to pay a small fee to offset the cost of travel, and that cost depends on where we travel that season. Typically, students are asked to contribute about \$200. If a student needs assistance with this, we are always willing to work something out privately so that every student can participate on Team 107.

Our Sponsors

FIRST Team 107 is very fortunate to have many great sponsors and it is through their generous support that we can offer the Robotics program to the students of Holland Christian High School. We are thankful for our financial sponsors and supporters. Most of our budget is made up of the donations from these sponsors. With money obtained from sponsors, we can pay our team registration fee, pay our different event registration fees, pay for transportation to and from events, purchase robot parts, and cover the cost of mentors to travel to the events. Since our mentors give so much time and their own finances to support the team, covering their travel is a great way to say thank you to them.

Diamond Sponsors:



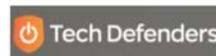
Gold and Silver Sponsors:



HAWORTH



twisthink



Bronze Sponsors:



Steel Sponsors:

- @HomeReality - Luke Bouman LLC
- Cap Trust
- Century Driving School
- Chicago Title
- Cunningham Dalman
- Holland Screen Print
- Innovative Cutting & Engraving
- Thermotron
- World Class Prototypes

Maroon Sponsors:

- Chick-fil-A
- Choice One Bank
- Farm Bureau Insurance - Andy Spears
- LCS Record Retrieval
- Medallion Instrumentation Systems
- Mobile Defenders
- Ronald Blue
- Scott Christopher Homes
- Teddy's Transport
- Zahn Builders

Our Budget

	2022 Robotics Team Budget Total Budget: \$67,750	
Season Expenses: Registration: \$6000 Robot Parts: \$5000 Food: \$500	West Michigan District Hotel: \$0 Transportation: \$0 Food: \$500 <i>Total: \$500</i>	2nd District Event Hotel: \$2000 Transportation: \$1000 Food: \$500 <i>Total: \$3500</i>
Possible 3rd Event Registration: \$500 Hotel: \$2000 Transportation: \$1000 Food: \$500 <i>Total: \$4000</i>	State Championship Registration: \$4000 Hotel: \$5000 Transportation: \$2000 Food: \$750 <i>Total: \$11,750</i>	World Championship Registration: \$6000 Hotel: \$6000 Airfare: \$20,000 Food: \$2000 <i>Total: \$33,000</i>
Indiana Robotics Invitational Registration: \$1000 Hotel: Student Provided Transportation: \$100 Food: \$500 <i>Total: \$1600</i>	Kettering Kickoff Registration: \$300 Hotel: Student Provided Transportation: \$100 Food: \$150 <i>Total: \$550</i>	West Michigan Robotics Invitational Registration: \$200 Transportation: \$0 Food: \$150 <i>Total: \$350</i>

Total: \$67,750

Registration: \$18,000

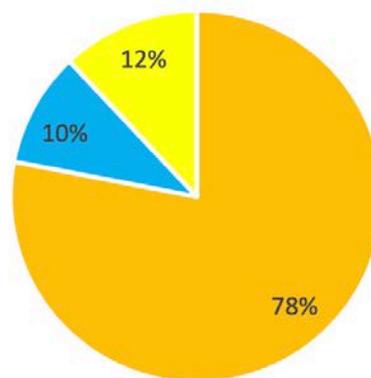
Parts: \$5000

Hotel: \$15,000

Transportation + Airfare: \$24,200

Food: \$5,550

Where the Money Comes From



■ Sponsor Donations ■ Fundraiser ■ Student Fee

