

Eagle Robotics

The FTC Experience

August 24, 2017

What is FIRST?
FIRST things First
Coopertition
More than Robots
Sport for the Mind
The hardest fun you'll ever have

Eagle Robotics

Team History

The collage features several posters and graphics for Eagle Robotics. At the top, there are banners for '2006 Game BEST' and '2007 Game BEST' from MPCs Robotics. A central poster for 'CASCAD E EFFECT' features the slogan 'IF WE BUILD IT, WILL YOU COME?' and the date '12/6/14'. To the left, a poster for 'WAR' is dated 'OCTOBER 20, 2014'. Other posters include 'PARTY' and 'ROBOTICS February 8th'. A large yellow graphic on the left side contains the text 'SATUR OCTO 9:00 a Southern State U'. At the bottom right, there is a logo for 'Southern Technic UNIVERSITY' and the website '73.weebly.com'. The background is a dark blue grid with a stylized eagle logo in the top right corner.

2007 GAME BEST MPCs Robotics

2006 GAME BEST MPCs Robotics

Geor "Mi

MPCS ROBOTICS

MPCS ROBOTICS

JUST PLANE CRAZY MPCs Robotics

MPCS 2014, put on your best

CHAMPIONSHIP

PARTY

2014 Mission: Due Genetically Sincered Bugs

EAGLE ROBOTICS
CASCAD E EFFECT

IF WE BUILD IT, WILL YOU COME?

12/6/14

WHAT: MPCs Robotics 2014 Eagle Robotics Team 2014

WHEN: Saturday, December 6, 2014

WHERE: Southern Technic University

contact Brad Smith
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visit online: www.eagle-robotics.com

EAGLE F
To
SATUR SOUTH

ROBOTICS
February 8th

Southern Technic UNIVERSITY

73.weebly.com

MPCS Spirit Store and
Party on Wednesday
MPCS Robotics Team as
in robotics experts in
and staffing of team
is a dramatic robot to
assist. For complete
MPCS Robotics Team
at: eagle-robotics.com

Best Buy
Home Depot
Very Qualified

BEST

A Safe Work Environment



- *There are some specific hazards associated with some of our projects. Before a student may work with or near certain tools they must be properly trained in the safe operation of those tools*
- *Safety glasses are provided and must be worn during the operation of power tools*
- *All members agree to abide by all written and oral safety instructions*
- *The operation of certain tools always requires supervision*

Academic Eligibility

- *Team members will maintain a cumulative GPA no lower than 2.50.*
- *Team members will have no grade lower than 70% in any academic course.*
- *Team members are expected to have no ISS or OSS in the current school year.*
- *Member grades will be reviewed at the nine week and semester grade reports.*

The Commitment and Pledge



- *Once signed up, team members are obligated to finish the season. By completing the enrollment process, team members commit themselves to full participation and cooperation, **furthering the team's chances of advancing until the team is either eliminated, or completes the World Championship.***



- *Team members should expect to invest at least 200 hours between September and March.*

Academic Lettering

- *Students who excel as team members are eligible for consideration for lettering in robotics.*
- *Students who letter must be nominated by a team member and a coach, and must have fulfilled all the requirements laid out for lettering.*

Gracious Professionalism®

It's Not All About Us

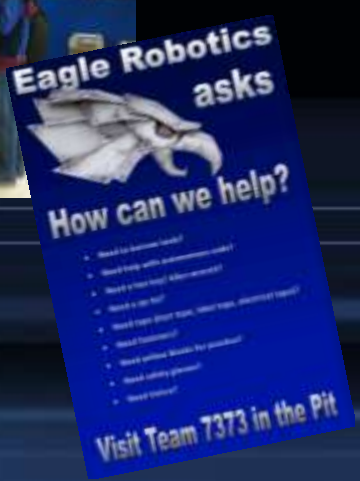
Inreach

Servant Leaders



- *Members of Eagle Robotics donate their time to the enterprise of helping, inspiring, encouraging, and mentoring our own MPCSFLL team*

Outreach



- *Members of Eagle Robotics donate their time to the enterprise of assisting, inspiring, encouraging, and sharing with our own competitors. We desire to win, but never at the cost of denying another team a chance to learn, compete, or see our faith in action*

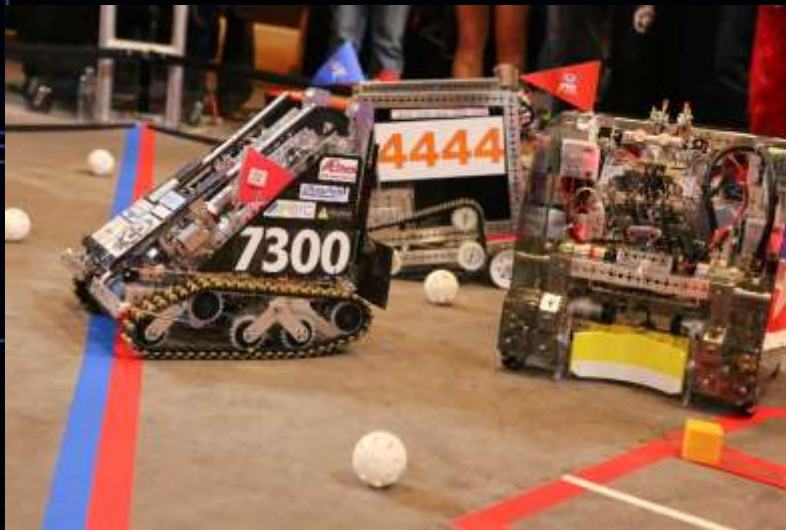
FIRST Tech Challenge (FTC)

FIRST Tech Challenge (FTC)



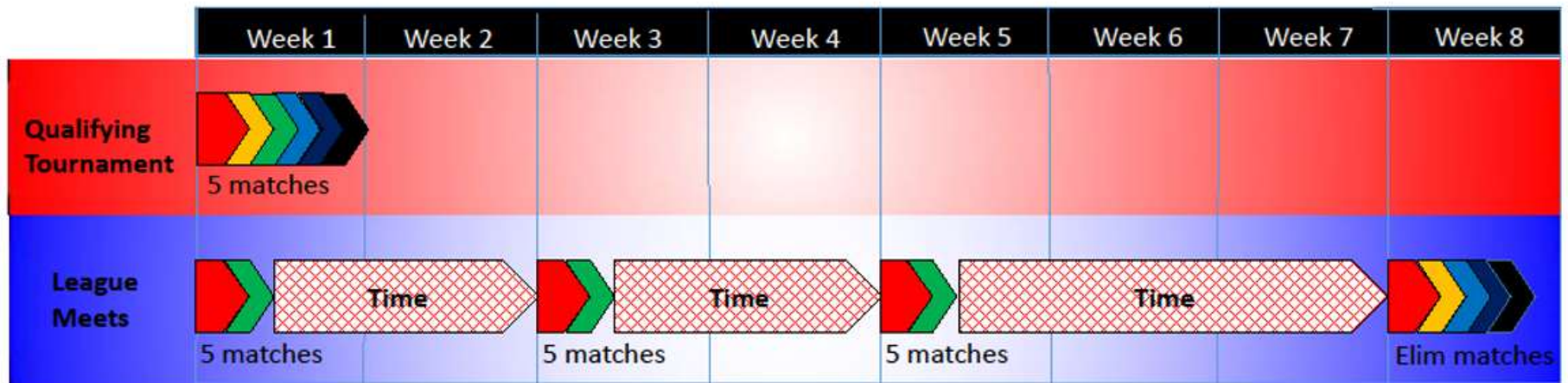
*Kickoff:
Saturday,
September 9*

FIRST Tech Challenge (FTC)



*Qualifying Events
and League Play:
October - January*

Qualifying Tournament vs League Meets



- A league model affords teams the opportunity to mature their design and understanding of the game over time.
- Workshops can be held between meets to further enhance a teams ability improve.
- The outcome is a stronger more confident team.


 Inspection


 Judging/
 Interviews


 Qualifying
 Matches


 Alliance
 Selection


 Elimination
 Matches


 Awards

- Pro
 - More frequent competition (more chances to test robots in actual competition)
- Con
 - More wear and tear on robot

- Pro
 - No need for so much oral presentation
- Con
 - Less practice of oral presentation

- Pro
 - Shorter days for competition
- Con
 - Meets take place on Saturdays – typical work days for us

- Pro

- Chance to build relationships with small group of teams within your league

- Con

- Blind to the ideas, talent, creative solutions other robots in other leagues may be utilizing

FIRST Tech Challenge (FTC)



*State
Championship:
February*

FIRST Tech Challenge (FTC)



*South
Superregional:
March*

FIRST Tech Challenge (FTC)



*World
Championship:
April*

What do members learn and do?

The Engineering Process

Mechanics

Computer Programming

Teamwork

Public Speaking

Engineering Documentation

Problem Solving

Time Management

Leadership

Wiring

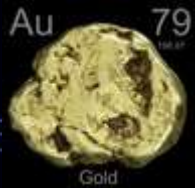
Responsibility

CAD - SolidWorks

Funding



$\$ \geq 1,000$



$999 \geq \$ \geq 500$



$499 \geq \$ \geq 250$



$249 \geq \$ \geq 1$

- *Eagle Robotics has meets its expenses through member dues and the kind donations of sponsors. These donations include:*

- *Corporate sponsorship with no direct tie*
- *Corporate sponsorship through STEM grants*
- *Family business sponsorships*
- *Individual sponsorships*

**All contributions to the team are tax deductible when submitted through the Office of Development.*

- *MPCS has historically provided \$2,000*

Funding

- *Member dues for 2017-18*
 - *\$? for all members*
 - *Member dues include a competition polo and an engineering notebook.*

Competition Uniform



- *Competition Shirt with embroidered team logo*
- *Color change: blue*
- *Team number embroidered on right sleeve*
- *Blue jeans*
- *Blue safety goggles*

Can I Play Sports and be on the Team?

- *Yes, but it can become a little complicated*
 - *Student must declared priority.*
 - *Robotics meetings often conflict with sport practices.*
 - ***How we work with an athlete's practice schedule.***
 - *Students who miss meetings put pressure on the team to use team time to catch up the absentee.*
 - *You will likely be asked not to hold a leadership role or carry critical responsibility*

The Information Pipeline



- *Connect instantly, safely, and efficiently with the [Remind](#) app*
 - *To receive push notification on your iOS or Android phone,*
 - *Download the free app [Remind](#) from the App Store or Google Play on your phone or tablet.*
 - *Enter this code when prompted: [@robotic](#)*
 - *To receive notices by SMS text message,*
 - *Send a text to [\(442\) 333-4285](#) with the message [@robotic](#)*
 - *To receive email notifications*
 - *Email robotic@mail.remind.com. Leave the subject line blank*

Contacting Coaches



Brad Smith

Head Coach

bsmith@mtparanschool.com

School (770) 578-0182 ext. 3210

Mobile (678) 602-6562



John Quarles jgquarles@yahoo.com

Engineering Mentor

Mobile (770) 757-9570

How do I sign up for the team?

- *Fill out all parts of the Member Enrollment Packet*
- *Complete online enrollment through the STIMS website – NOT OPEN until September*
- *Turn in your Member Enrollment Packet to Mr. Smith and Pay your dues*
- *The ideal team size is ten members. Suggested maximum size is fifteen.*

Q & A