



INTRODUCTION TO FRC TEAM 48 - TEAM E.L.I.T.E. AND *FIRST*

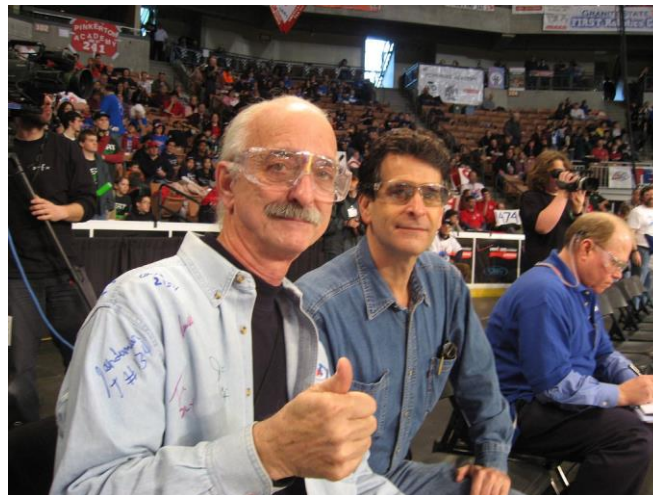


Presented by Travis Hoffman,
Team 48 Lead Engineering Mentor



***FIRST* BASICS**

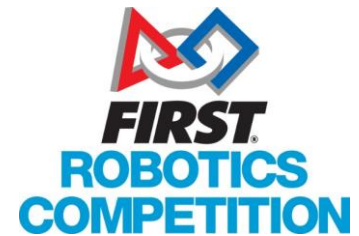
- *FIRST* – For Inspiration and Recognition of Science and Technology
- Headquartered in Manchester, NH
- Website - www.firstinspires.org
- Founded by Inventor Dean Kamen and MIT Professor Woodie Flowers in 1989.





FIRST BASICS

- Team 48 competes in the *FIRST* Robotics Competition for High School students
 - FRC pairs students with skilled mentors and teachers and provides hands-on experience designing and building a robot to compete in a yearly robotics competition.
 - FRC is a great and FUN introduction to engineering and related disciplines – it's a great excuse to apply all those “boring things” you learn in school textbooks.
 - The first-ever *FIRST* Robotics Competition was in 1992.
 - The game challenge changes every year
 - Games are modeled after professional sports
 - 1992 – a single event held in a high school gym in New Hampshire
 - The game was called *Maize Craze*.
 - Robots were smaller and literally played on a bed of corn.
 - Video! - <https://www.youtube.com/watch?v=0-m1QBOxsfg>
 - Video! – St. Louis Championship - 2013 Einstein Finals Match #3 – the game was *Ultimate Ascent* - <https://www.youtube.com/watch?v=MQ0VNzlvHx0>
 - MUCH has changed over the years!





FIRST BASICS

- We have a little over 6 weeks starting with the Kickoff on Saturday January 5, 2019 to design, build, wire, and test the competition robot.
 - On Stop Build Day in mid-February, the competition robot goes into a bag where it is sealed off until we get to our first regional competition.
 - We also build a nearly-identical practice robot so we can legally continue to make and test robot improvements and get drive team practice, even after Stop Build Day.
- Regional competitions are held throughout March and into early April. At the regionals, we attempt to qualify to attend the Detroit Championship Event. Option to swap to Houston – 24 hour bus ride!
 - We typically attend 3 regionals a year as well as the Championship if we qualify. This is not an easy task and requires every team member to contribute and do their part!
 - We are planning to attend the Midwest Regional (Chicago – confirmed), Buckeye Regional (Cleveland – confirmed), and Seven Rivers Regional (La Crosse, Wisconsin – TBD) this season.



FIRST BASICS

- Competitions are fun and exciting – music, dancing, mascots, colorful team uniforms, emcee/game announcer, bustling pit area and playing field
 - Great opportunity to meet other teams and people, check out their robots, see how they chose to attack the same design challenge you did
 - Often international teams will be in attendance – China, Israel, Turkey, Netherlands, Tonga, etc.
 - In addition to awards for doing well on the field, many judged awards are available for teams and individuals to earn.
 - <https://www.firstinspires.org/robotics/frc/awards>
 - Chairman's Award
 - Engineering Inspiration Award
 - Safety Award
 - Woodie Flowers Finalist Award
 - Team 48 currently has 3 mentors who have been nominated by team student and who have won the WFFA at the regional level – Travis Hoffman, Greg Christman, Donnell Conner
 - Dean's List Award



***FIRST* BASICS**

- Other *FIRST* Programs:
 - *FIRST* Tech Challenge - middle school and high school students
 - *FIRST* LEGO League – older elementary and middle school students
 - Team 48/Harding will host a FLL regional on Saturday 12/8, and we need as many students as possible to volunteer for this and also for Friday 12/7 setup
 - Frank will arrange volunteer registration at an upcoming team meeting
 - *FIRST* LEGO League Jr. – Younger elementary school students





TEAM 48 BASICS

- Founded in 1998.
- 2019 will be Team 48's 22nd season competing in FRC.
- Primary Team Sponsors:
 - Warren City Schools
 - Aptiv / Aptiv Foundation
 - Nordson XALOY (EX-uh-Loy)
- Team Website - www.delphielite.com
 - www.delphielite.com/sponsors
 - www.delphielite.com/calendar
- Team names:
 - 1998 – E.L.I.T.E.
 - 1999 – Team E.L.I.T.E. – won the Championship!
 - 2000 - 2018 – Delphi E.L.I.T.E.
 - 2019 - Team E.L.I.T.E.

TEAM 48 BASICS



- E.L.I.T.E. – Encouraging Learning In Technology and Engineering
- NEVER “ELITE” or “Elite” – ALWAYS “E.L.I.T.E.”



TEAM 48 BASICS



- Robot Name – xtremachen (pronounced “Extreme Machine”)



- Short Name – XM1, XM2, XM21, etc.
- 2019 Robot will be xtremachen22, or XM22
- Each robot often gets nicknamed for its worst/most annoying characteristic. Has to end in an –y (long-E) sound:

TEAM 48 BASICS



Accepted Names 1998-2012:

1998 – Shaky
1999 – Flaky
2000 – Gimp
2001 – Smoky
2002 – Porky
2003 – Tippy
2004 – Murphy
2005 – Frankie/Stewie
2006 – Bessie
2007 – Snoopy
2008 – Jimmie
2009 – Happy
2010 – Crappy
2011 – Nessie
2012 – ~~Kyrie~~ Cedi

Proposed Names 2013-2019:

2013 – Jammy
2014 – Floppy
2015 – Dumpy
2016 – CG (#neverforget)
2017 – Brownie
2018 – Rumpy
2019 - ???



GRACIOUS PROFESSIONALISM

- What is Gracious Professionalism (“GP” for short)?
- <https://www.firstinspires.org/about/vision-and-mission>
 - Actions and habits that would make your grandmothers proud
 - We do not put other teams down, especially verbally
 - We actively seek to help other teams in need
 - We are open in sharing details of our robot and its design with others who ask
 - Compete like crazy on the field, collaborate like crazy off of it



NEOFRA

- NEOFRA is a **PRIME** example of GP in action locally.
 - www.neofra.com
- NEOFRA - Northeast Ohio *FIRST* Robotics Alliance
 - Founded in 2007 back when there were only 4 local teams as a way for us to help each other more often, as well as “make it loud” in promoting FIRST throughout the Mahoning Valley
 - Achieving more together than we ever could have separately
 - We work together to:
 - Share ideas and designs
 - Loan parts and materials
 - Hold community demos
 - Mentor rookie teams (like Team 7486 this year, and 3193, 4601, 5077, 5418, and 6054 in the past)
 - Fundraise (GM)
 - Host competitions, including FLL regionals in December, and the FRC Mahoning Valley Robotics Challenge (MVRC) offseason competition





NEOFRA

- 11 NEOFRA Teams (7 in Mahoning Valley, 4 a bit further away):
 - *48 – Team E.L.I.T.E. – Warren
 - *379 – RoboCats – Girard
 - *2010 – Lightning Bots – Champion
 - *3193 – Falco Tech – Austintown
 - *4601 – Circuit Birds – Canfield
 - 5077 – RoboCards – Youngstown Mooney
 - *5418 – Sonic Screwdrivers – Hubbard
-
- 1248 – TITANium Allies – Berea
 - 1787 – Flying Circuits – Pepper Pike
 - 6054 – The Dukes – Alliance
 - 7486 – SCRoLL – Akron/Kent – 2019 Rookie Team

(* = Aptiv Foundation sponsored team)



SCHOLARSHIPS!

- *FIRST* Scholarships – 200 institutions, \$80 million!
 - <https://www.firstinspires.org/scholarships>
 - Naturally, FRC encourages further education at a college/university, but we do not EXPECT students to go that route.
 - We want all Team 48 students to see the importance of engaging in some form of additional education beyond high school.
 - This is of course in addition to taking care of your grades while IN high school.
 - Frank should have gone over all of the team-specific requirements for traveling, etc. with you.
 - Trade schools, apprenticeships, community college, and the military are all legitimate post-high school career paths.
 - College/University costs can be expensive – you may generate quite a bit of college loan debt before it's all over without scholarships and other forms of non-loan financial aid.
 - There is a GREAT demand for skilled tradespeople currently. Machinists, welders, etc. Many of these jobs come highly-paid and the training required is often either paid for or relatively-inexpensive compared with college.
 - *FIRST* Scholarships – if you really have your eye on going to college, **CHECK OUT THE FIRST SCHOLARSHIPS PAGE**. Many institutions have set aside scholarship funds specifically for students on *FIRST* robotics teams. Youngstown State University is one such institution.



TEAM 48 SOCIAL MEDIA

- Team Website – www.delphielite.com
- Instagram - @delphielite48, <https://www.instagram.com/delphielite48>
- Twitter - @delphielite, <https://twitter.com/delphielite>
- YouTube
 - <https://www.youtube.com/user/homarv13> (me)
 - <https://www.youtube.com/user/curseofdragon33> (Tom Yuricek, Jr.)
 - <https://www.youtube.com/channel/UCPIXmDTjR680zGQSTY4L2aw/videos> (Team 48)
 - <https://www.youtube.com/user/FIRSTWorldTube> (FIRST)
 - <https://www.youtube.com/user/FRCTeamsGlobal> (FIRST)
- Facebook Group (private) - <https://www.facebook.com/groups/team48/>
- Facebook Page - <https://www.facebook.com/delphielite/>

TEAM 48 ONLINE COMMUNICATIONS



- Email, Phone, & Text are the best option to use when contacting some mentors (ask them):
 - Travis Mobile - 330-219-7848
 - travis.e.hoffman@aptiv.com
 - Frank Mobile – 330-647-6576
 - frank.bosak@gmail.com
- Team 48 Calendar/Website!
 - www.delphielite.com/calendar
 - www.delphielite.com/internal
 - Contains BLAR EFFECT information, this PowerPoint presentation
- Slack Workspace – <http://frcteam48.slack.com>
 - STRONGLY RECOMMENDED!
 - Online team discussion/collaboration site. VERY useful for design/build collaboration
 - Join Link:
 - https://join.slack.com/t/frcteam48/shared_invite/enQtMjk2MzM1OTYwMDM1LTE3Y2ViODc4NmU0MzRiNjU1NjI5MmMyNDYyN2FjYzZmNzFkOTY2MTAyOTI1ZjIwZTgwZWZWRmNTdhMmFiMmJlMzE
- Remind Messaging Service
 - ALL team members and parents should join this to receive important notices and info.
 - To join, text @team48 to 81010
- Messaging via Team Facebook Group (private)
 - <https://www.facebook.com/groups/team48/>
 - Ask to join the private group, and once approved, you can send messages to group members.
 - This is ANOTHER good place for parents to join.



OTHER *FIRST* WEB LINKS

- www.firstinspires.org
- www.chiefdelphi.com
 - Discussion forums covering a wide range of topics related to *FIRST*
 - Extremely popular! Find out what other team are doing all over the world
- www.thebluealliance.com
 - Search for and watch old match videos, watch live webcasts, find out event results, etc.
- www.neofra.com



QUESTIONS?

- ??????
- Volunteer for FLL Regional at Harding on 12/8 (Friday 12/7 setup) -
Registration Form Link:
 - <https://goo.gl/forms/gMbN3dejKjKTSiCz2>
- Join Team 48 Slack:
 - https://join.slack.com/t/frcteam48/shared_invite/enQtMjk2MzM1OTYwMDM1LTE3Y2ViODc4NmU0MzRiNjU1NjI5MmMyNDYyN2FjYzZmNzFkOTY2MTAyOTI1ZjIwZTgwZWZWRmNTdhMmFiMmJlMzE
- Join Team 48 Remind - Text @team48 to 81010