

Outreach Awards

The Bionic Tigers - FTC 10464



Outreach



noun

/'out,rēCH/

1. the extent or length of reaching out.

Core Values: Impact, Inclusion, Fun

Three Main Types of Outreach

- Professional - Connect
- Community - Motivate
- FIRST - Motivate

Motivate Award Definition

- Gracious Professionalism
- Engineering Notebook
- FIRST Ambassador
- Outreach
- Contribution
- Presentation

Motivate Award

This team embraces the culture of *FIRST* and clearly shows what it means to be a Team. This judged award celebrates the Team that represents the essence of the *FIRST* Tech Challenge competition through Team building, Team spirit and displayed enthusiasm. This is a Team who makes a collective effort to make *FIRST* known throughout their school and community, and sparks others to embrace the culture of *FIRST*.

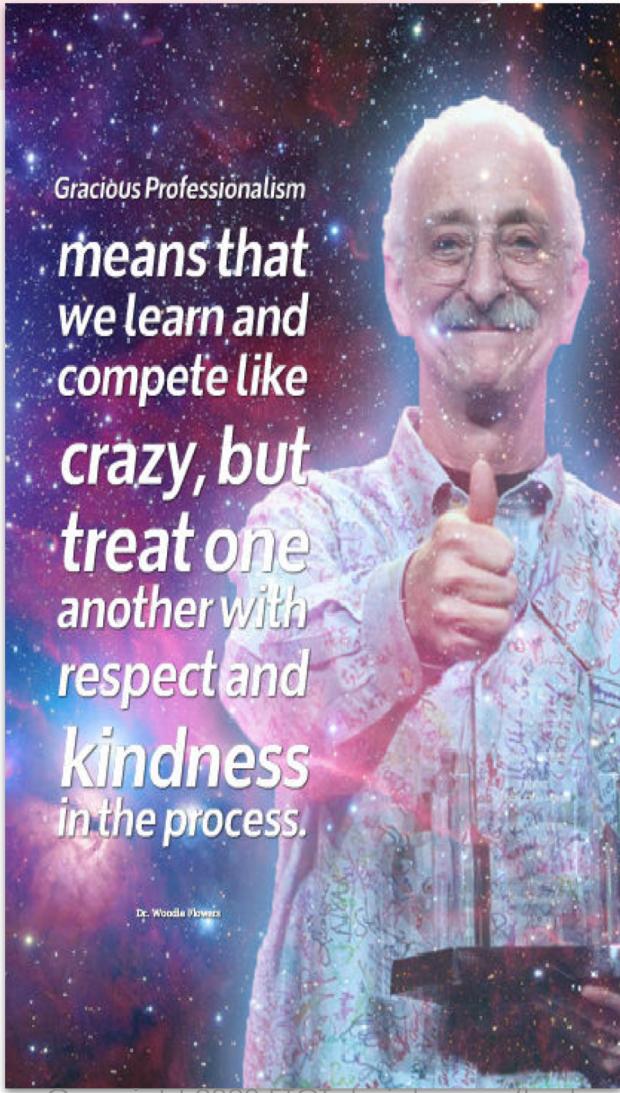
Required criteria for the Motivate Award:

- Team shows respect and *Gracious Professionalism*® to everyone they meet at a *FIRST* Tech Challenge event.
- Team must submit an Engineering Notebook. The Engineering Notebook must include a Business or Strategic plan that identifies their future goals and the steps they will take to reach those goals. The plan could include fundraising goals, sustainability goals, timelines, outreach, and community service goals.
- The Team is an ambassador for *FIRST* programs.
- Team can clearly show the successful recruitment of new Teams, mentors, coaches and volunteers who were not already active within the STEM community.
- Team can explain the individual contributions of each Team member, and how these apply to the overall success of the Team.

Strongly suggested criteria for the Motivate Award:

- All Team members take part in their presentation, and actively engage with the judges.
- Team shows a creative approach to materials that market their Team and *FIRST*.

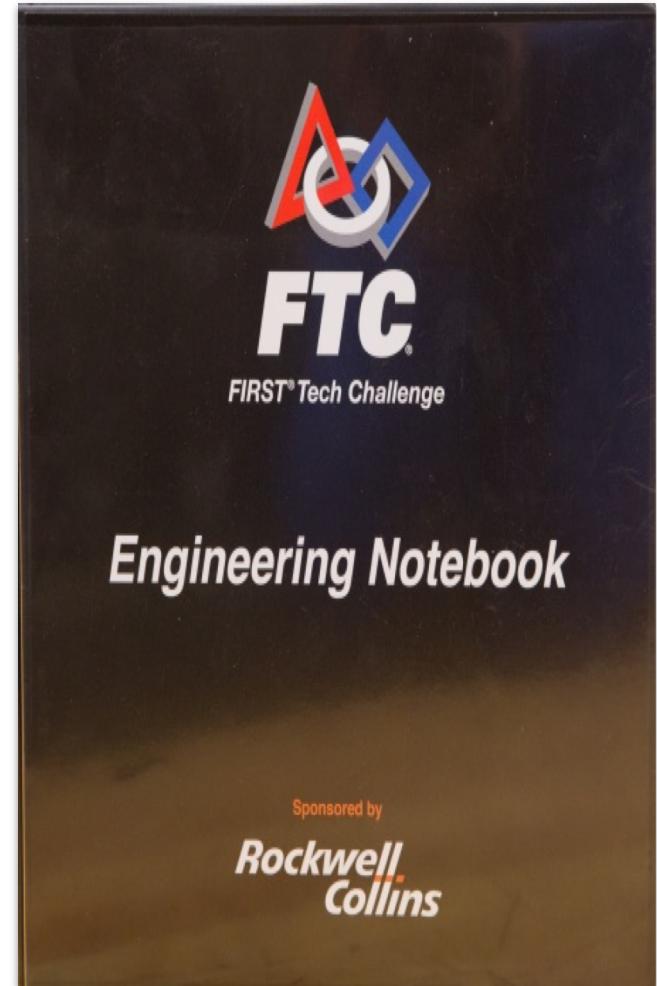
Woodie Flowers, Distinguished Advisor to FIRST



- Teams show respect and Gracious Professionalism® to everyone they meet at a FIRST Tech Challenge event.
- What is Gracious Professionalism®?
 - Understanding that this is a learning experience for everyone and supporting one another
 - What does “everyone” mean?
- The idea is that:
 - Every team against the game, not team vs team
 - Be supportive of each other and help each other out

Motivate Award Criteria

- Teams must submit an Engineering Notebook.
 - Clear documentation
 - Include visuals
 - Record stats
- The Engineering notebook must include a Business or Strategic plan that identifies their future goals and the steps they will take to reach those goals.
 - The plan could include fundraising goals, sustainability goals, timelines, outreach, and community service goals



Examples of Outreach

Event	Date	Location	Event Duration	Total Time (Hours)	Team Members	# Of Members Attended	Outreach Hours
Event 1	2/22/18	Location	5:00pm-8:00pm	3	Person, Person, Person, Person	4	12
Event 2	3/4/18	Location	1:00pm-4:30pm	3.5	Person, Person, Person, Person	4	14
Event 3	3/9/18	Location	7:30am-2:15pm	7	Person, Person, Person, Person	4	28
Event 4	4/4/18	Location	11:40am-1:05pm	1.25	Person, Person, Person, Person	4	5
Event 5	4/3/18	Location	10:40am–12:55pm	2	Person, Person, Person, Person	4	8
Event 6	4/5/18	Location	8:00am-9:00am	1	Person, Person, Person, Person	4	4
Event 7	5/2/18	Location	11:00am-2:00pm	3	Person, Person, Person, Person	4	12
Event 8	5/19/18	Location	9:00am-1:00pm	4	Person, Person, Person, Person	4	16

Library Robotics Open House

07/7/18

On July 7th 2018, The Bionic Tigers hosted the first of three Robotics Open House events at The Symmes Library. We also ran this event on July 14th and August 11th. Our goal was to promote STEM and FIRST in our community. Our focus was to expose children to STEM and FIRST. To do this, we set up five different stations to show our community different things that we learn from FIRST. We attracted the interest of many children and parents who stayed to participate in all of our stations and wanted to learn all they could about our robots.



One of the station we set up was snap circuits to show the younger kids that getting started is not that daunting. This station also showed off the electrical engineering skills we learn in FTC. This station was a big hit with the kids, no matter what age all the kids loved this station. Kids were able to make circuits from the brochures that came with the snap circuits and go at their own speed. The kids were also allowed to pick out a project to make according to their age group or difficulty range. This helped kids of all ages have fun but also learn about circuits and electricity.



Another station we ran allowed the kids to drive our robots so they could see the culmination of our build and programming efforts and see how robots react to inputs. This station allowed kids to work on their driving skills and their communication skills. This showed the kids how difficult it is to drive our robot. We also brought two of our VEX team's robots with a few cones from last year's game so the kids can stack cones. This shows the kids what stress our drivers are under during competitions and how much they have to practice to get everything to work. We also ran a programming station in which one person was blindfolded and another person had to guide them along a white line. Our goal with this station was to show there is more to the robots than just building it. This event also helped the kids with their communication. After the first event we realized that this activity did not show off programming as well as we would've liked. So for the next event we replaced it with line following NXT robots.

Team is an Ambassador for FIRST

- An Ambassador means that you are the in between of your community and FIRST Robotics.
- Presence in your community
 - Make it loud
 - Share your passion
 - Example: We tweet back and forth with our school faculty to share how active we are



Quantity and Quality of Outreach

- Quantity of Outreach
 - Hours
 - Demos
 - Library
 - Younger schools
 - Museums
- Quality of Outreach
 - Have a purpose
 - Have variety
 - Show passion for it in presentation



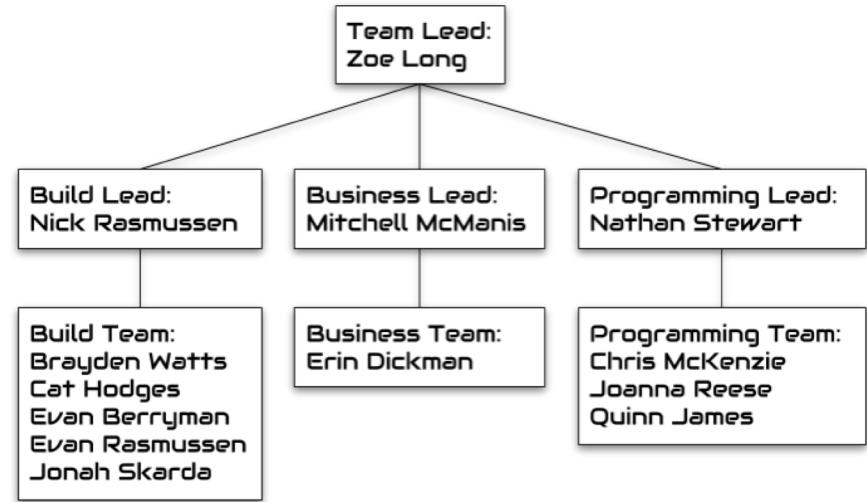
Team Growth



- Teams can clearly show the successful recruitment of new teams, mentors, coaches and volunteers who were not already active within the STEM community.
- Grow your team
- Leaving a legacy
- FLL mentoring
- Growing our program (From 2 teams to 10+ and adding Boosters)

Have a Clear Team Structure

- Team can explain the individual contributions of each team member, and how these apply to the overall success of the Team.
 - Presentations
 - Prepare to answer any question
 - Be memorable
 - Having clear team structure
 - Take pictures of each team member working for the notebook
 - Sign pages in notebook



Connect Award Definition

- Gracious Professionalism
- Engineering Notebook
- **Documentation**
- **Professionals in community**
- Contribution
- Presentation

Connect Award	
<p><i>Connecting the dots between community, FIRST, and the diversity of the engineering world.</i></p> <p>This judged award is given to the team that most connects with their local science, technology, engineering and math (STEM) community. A true FIRST team is more than a sum of its parts and recognizes that engaging their local STEM community plays an essential part in their success. The recipient of this award is recognized for helping the community understand FIRST, the FIRST Tech Challenge, and the team itself. The team that wins the Connect Award aggressively seeks and recruits engineers and explores the opportunities available in the world of engineering, science and technology. This team has a clear Business or Strategic Plan and has identified steps to achieve their goals.</p>	<p>Required criteria for the Connect Award:</p> <ul style="list-style-type: none">• Team shows respect and <i>Gracious Professionalism</i>[®] to everyone they meet at a FIRST Tech Challenge event.• Team must submit an Engineering Notebook. The engineering notebook must include a Business or Strategic plan that identifies their future goals and the steps they will take to reach those goals. Examples of what the plan could include are fund-raising goals, sustainability goals, timelines, outreach, and community service goals.• Team provides clear examples of developing in person or virtual connections with individuals in the engineering, science, or technology community.• Team actively engages with the engineering community to help them understand FIRST, the FIRST Tech Challenge, and the team itself.

Connect Award Criteria

- Team provides clear examples of developing in person or virtual connections with individuals in the engineering, science, or technology community
- **Relevant Quality Elements:**
 - Teamwork; Enthusiasm; Communication; Outreach; Funding Plan; Networking
 - DO NOT BE AFRAID TO REACH OUT!

Engaging the Engineering Community

- Team actively engages with the engineering community to help them understand FIRST, the FIRST Tech Challenge, and the team itself
 - Tours
 - Learning
 - Mentors



Motivate vs Connect Awards?

The focus of the outreach:

Community and FIRST (MOTIVATE)

vs

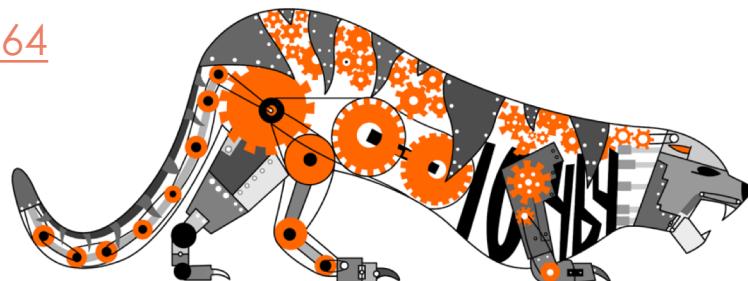
Professional (CONNECT)

Summary

Create a balance between types of outreach

Credits

- This lesson was written by The Bionic Tigers 10464 for FTCTutorials.com
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