

2018
THE MARYLAND ROBOTICS ALLIANCE
SUMMER SEMINARS FOR MENTORS



Audience: FRC Mentors (mentors only; no students)

Host: The Maryland Robotics Alliance (MRA) in partnership
with USRA - <http://www.usra.edu/>

Date: Saturday, June 2, 2018 - 8:30am-1:00pm

Location: USRA Conference Center, 7178 Columbia Gateway Dr, Columbia, MD, 21045
Location Map URL - <https://goo.gl/maps/8LYi5WATszp>

Contact: info@mdrobotalliance.org

Registration:



**WATCH YOUR EMAIL AND THE MRA SITE
FOR REGISTRATION DETAILS**

This will be a wonderful post-season event and a time to gather and
learn more about the topic of mentoring our robotics students.
An optional "pay your way" post-workshop lunch at a local watering hole
will be arranged for those interested

Our 2018 Seminar Topics



Mentoring 101: How to Effectively Engage with Students
Power Up: Lessons Learned from the Season
Don't Go Home Empty-Handed: Panel Discussion on Awards

Join the MRA - Apply online at
<http://mdrobotalliance.org/>

FIRST POWER UP



FIRST Robotics Competition

Awards Overview

Grant Dekker

6/2/2018

The Maryland Robotics Alliance
Summer 2018 Seminars for
Mentors





For today:

Why awards

What awards

Who/where are the judges

How to “Don’t Go Home Empty-Handed”



This Isn't a Robot (Produced by RadicalMedia) - YouTube

YouTube · Official FIRST

Why awards

This isn't a Robot

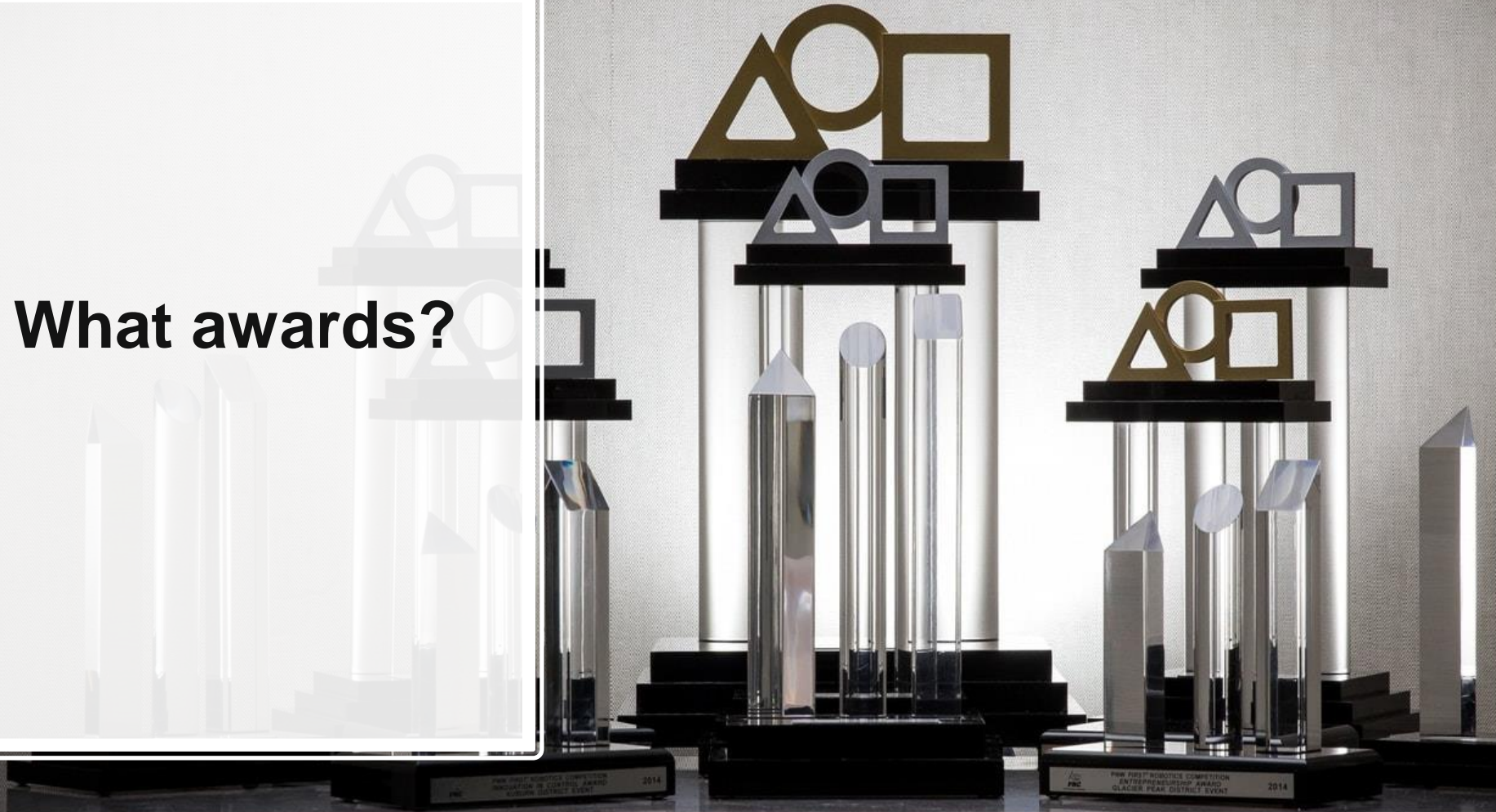
**“... it is a machine to build
the people who will
change the world.”**



Why Awards?

- Reinforce the goals of FIRST (aligned)
- FIRST – Inspiration and Recognition
- Inspires confidence and motivates
- Success builds reputation
- Nice additions to students' resumes
- Can advance you forward to District Championships on to Worlds
- It builds networks
- It provides opportunities for engaging with community, community leaders
- Provides organizational structure and focus

What awards?



RESOURCE LIBRARY

FILTER



All



My Library

RESET FILTERS

Content Type ?



FIRST LEGO League Jr.



FIRST LEGO League



FIRST Tech Challenge



FIRST Robotics Competition



FIRST General



Volunteer

Tags ?



Sort by

Post date

awards

Search

Awards Based On Team Attributes

Nov. 02 2016



Content Type: *FIRST* Robotics Competition

Detailed information about Awards Based on Team Attributes: Engineering Inspiration, Gracious Professionalism, Imagery, Judge's, Rookie All-Star, Rookie Inspiration, Safety, and Team Spirit.

Awards Based On Creativity And Innovation

Nov. 01 2016



Content Type: *FIRST* Robotics Competition

Detailed Information about the *FIRST* Robotics Competition Awards Based on Creativity and Innovation: Excellence in Engineering Award, Innovation in Control Award, and Creativity Award.

Awards Based On The Machine

Nov. 01 2016



Content Type: *FIRST* Robotics Competition

Detailed information about the *FIRST* Robotics Competition Awards Based on the Machine: Industrial Design and Quality.

Submitted Awards

Nov. 01 2016



Content Type: *FIRST* Robotics Competition

Detailed information about the Submitted *FIRST* Robotics Competition Awards: Chairman's Award, Dean's List Award, Entrepreneurship Award, and Woodie Flowers Finalist Award.

<https://www.firstinspires.org/resource-library/frc>



Awards Based on Team Attributes

- Team Spirit Award Sponsored by FCA Foundation
- Imagery Award in honor of Jack Kamen
- Gracious Professionalism Award Sponsored by Johnson & Johnson
- Rookie All-Star Award
- Rookie Inspiration Award Sponsored by National Instruments
- Engineering Inspiration Award
- Safety Award Sponsored by UL

Awards Based on Team Attributes (1 of 2)



Team Spirit Award *sponsored by FCA Foundation*

Celebrates **extraordinary enthusiasm** and **spirit** through **exceptional partnership and teamwork** furthering the objectives of *FIRST*.

Imagery Award *in honor of Jack Kamen*

This award celebrates **attractiveness** in engineering and **outstanding visual aesthetic integration** of machine and team appearance.

Gracious Professionalism® Award *Sponsored by Johnson & Johnson*

Celebrates outstanding **demonstration of *FIRST* Core Values** such as continuous Gracious Professionalism® working together both **on and off the playing field**.

Awards Based on Team Attributes (2 of 2)



Rookie All-Star Award

Celebrates the rookie team **exemplifying** a young but **strong partnership effort**, as well as **implementing the mission** of *FIRST* to **inspire students** to learn more about science and technology.

Rookie Inspiration Award *Sponsored by National Instruments*

Celebrates a rookie team's outstanding **success in advancing respect** and **appreciation** for engineering and engineers, both within their **school**, as well as in their **community**.

Engineering Inspiration Award

Celebrates outstanding success in **advancing respect** and **appreciation** for engineering within a team's **school or organization** and **community**.

Safety Award *Sponsored by Underwriters Laboratories*

Celebrates the team that **progresses beyond safety fundamentals** by using **innovative ways** to eliminate or protect against hazards.



Awards Based on the Machine

- Industrial Design Award
- Quality Award

Awards Based on Machine



Industrial Design Award *Sponsored by General Motors*

Celebrates **form and function** in an efficiently designed machine that **effectively addresses** the game challenge.

Quality Award *Sponsored by Motorola Solutions Foundation*

Celebrates machine **robustness** in **concept** and **fabrication**.



Awards Based on Creativity and Innovation

- Autonomous Award Sponsored by Ford
(Only Championships this past year...but....)
- Excellence in Engineering Award Sponsored By Delphi
- Innovation in Control Award Sponsored By Rockwell Automation
- Creativity Award Sponsored By Xerox

Awards Based on Creativity and Innovation



Autonomous Award Sponsored by Ford (*FIRST* Championship Only)

Based on the robot's ability to **sense its surroundings, position itself within the field**, and **plan and execute tasks** during autonomous period.

Excellence in Engineering Award sponsored by Delphi


Celebrates an **elegant and advantageous** machine feature.

Innovation in Control Award Sponsored by Rockwell Automation

Celebrates an **innovative** control system or **application of** control components – electrical, mechanical, or software – to provide **unique machine functions**.

Creativity Award Sponsored by Xerox

Celebrates creativity in **design**, **use** of component, or **strategy** of play.



Submitted Awards

- Woodie Flowers Finalist Award
- FIRST Dean's List Award
- Entrepreneurship Award *sponsored by*
Kleiner Perkins Caufield & Byers
- Chairman's Award

Submitted Awards (1 of 2)



Woodie Flowers Finalist Award

Presented to an **outstanding Mentor** in the robotics competition who best **leads, inspires, teaches, and empowers** their team using excellent communication skills.

FIRST Dean's List Award

Celebrates **outstanding student leaders** whose **passion** for and **effectiveness** at attaining *FIRST* ideals is exemplary.

Entrepreneurship Award *sponsored by Kleiner Perkins Caufield & Byers*

Celebrates the entrepreneurial spirit by recognizing a team that has **developed the framework** for a **comprehensive business plan** to scope, manage, and achieve team objectives.

Submitted Awards (2 of 2)



Chairman's Award

The most prestigious award at *FIRST*, it honors the team that **best represents a model** for other teams to emulate and **best embodies the purpose and goals** of *FIRST*.

- Well-rounded in most/all facets of the program
- Cohesive
- Outreach – community and beyond
- Gracious Professionals
- Volunteering and mentoring
- Ambassadors
- Sustained excellence




And the Judges' Award

Judges' Award

During the course of the competition, the judging panel may decide a team's **unique efforts, performance, or dynamics** merit recognition.

Common question



Is there a hierarchy to the awards?

Besides Chairman's, Engineering Inspiration, and Rookie All-Star → **NO**

District Points Model represents this:

- 10 points for Chairman's Award
- 8 points each for Engineering Inspiration and Rookie All Star Awards
- 5 points each for all other judged Team awards



Who are the Judges?

- **Volunteers**
- **Many are engineers or STEM-based professionals but typically a variety of backgrounds**
- **Some are alumni or past mentors**
- **Some have judged for years; some are rookies**

Judges do what?

They interview

They watch and observe

They listen

They deliberate

They investigate

They prep in advance

They care

They like questions

Judges do what?

They interview

They watch and observe

They listen

They deliberate

They investigate

They prep in advance

They care

They like questions

And hopefully inspire!



Thoughts on becoming more competitive


- Have a strategy for awards
- Use the FIRST Community
- Make sure everyone on the team knows the Team's story
- First day interviews are important
 - Know the “pitch”
 - Highlight uniqueness, make compelling points, make the story stick in the mind of the judges
- Focus on pre- and postseason



Being more competitive - drilling down

- Whether MCI or Team Attribute-based – show the impact
- Document and describe preseason prep and postseason
- Describe game prep, techniques, and processes
- Show successes, overcoming failures, tackling challenges
- Your journey to this season
- Plans after this season
- Experiences with other teams
- Leave-behinds
- Talk about your role; talk about your mentor
- Judges are there to hear your stories – tell them

Common question



**Why does it
seem some
teams win more
than others?**

- **Document their efforts and ensure continuity (and sustainability)**
- **A focus on continuous improvement**
- **More than build season-only**
- **Mission of FIRST is instilled in them**
- **Gracious Professionalism radiates from their pores**
- **They plan, they execute, they communicate**
- **They know their Team's story and tell it with enthusiasm**

Good references

FIRST's Team Attributes Descriptions	https://www.firstinspires.org/resource-library/frc/awards-based-on-team-attributes
FIRST's Machine Descriptions	https://www.firstinspires.org/resource-library/frc/awards-based-on-machine
FIRST's Team Creativity and Innovation Descriptions	https://www.firstinspires.org/resource-library/frc/awards-based-on-creativity-innovation
FIRST's Submitted Awards descriptions	https://www.firstinspires.org/resource-library/frc/submitted-awards
FIRST's Resource Library	https://www.firstinspires.org/resource-library
FIRST's General FRC Awards Page	https://www.firstinspires.org/robotics/frc/awards
Kristine Atiyeh's PowerPoint	https://docs.google.com/presentation/d/1OJvExkFbnoZd-SX30fqzx9y98eJhdSh3heIJXwwlxql/
FIRST's 2018 Complete Awards Chart	https://www.firstinspires.org/sites/default/files/uploads/resource_library/frc/game-and-season-info/awards/2018/2018-complete-awards-chart.pdf