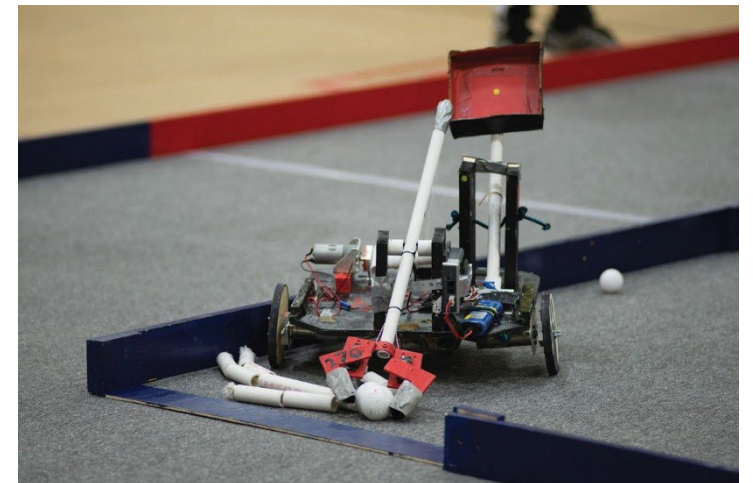
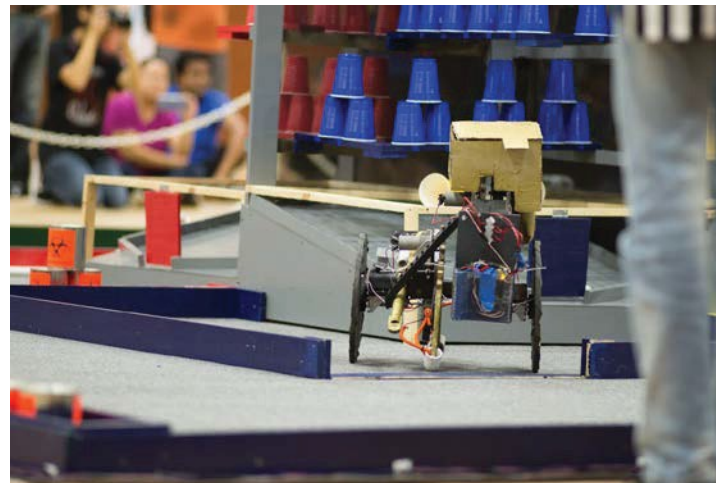


BEST ROBOTICS

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Competition Overview



Competition Overview



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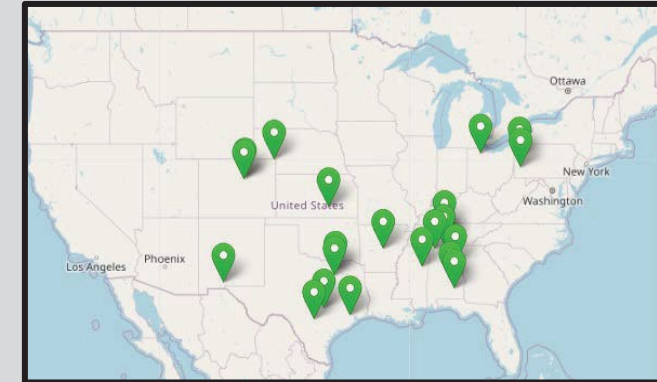
- Hub Level Competition

- Held in local community/geographic area
- Hubs follow the same rules, schedule & kit materials
- One to Two-day event
- Teams advance to a Regional Championship based on Hub performance

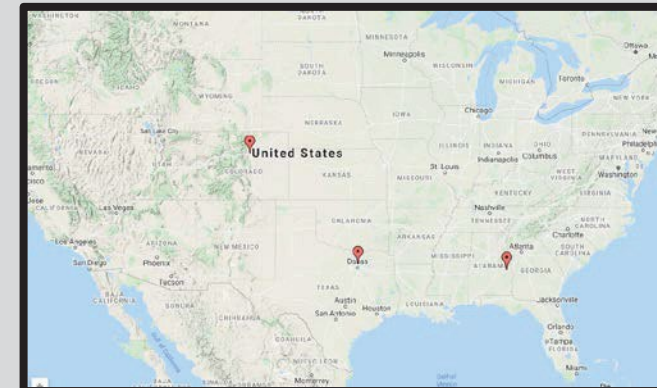
- Regional Championship

- Competition between winners of Hub Level competitions
- Two to Three-day event

Hubs



Championships



Competition Characteristics



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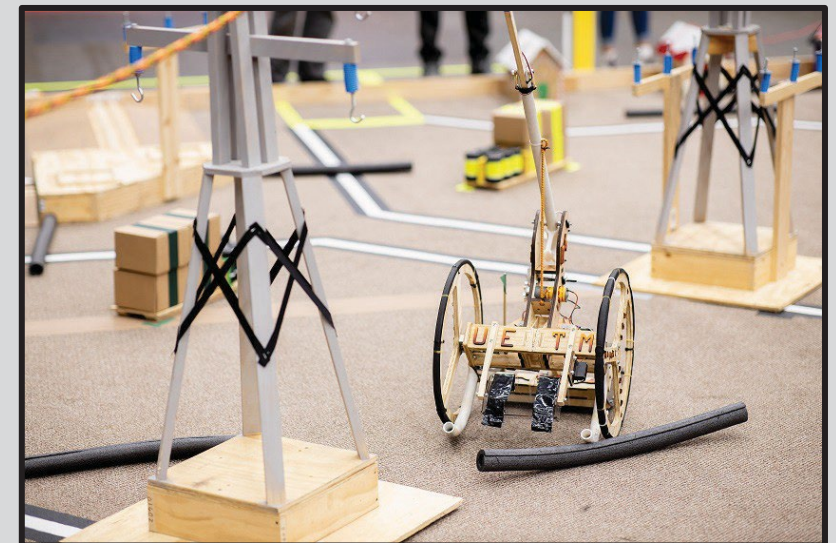
- Common Characteristics

- No registration fees or equipment (kit) costs
- Open to Intermediate, Middle & High Schools
- Public, Private, Charter, Homeschools, Boys & Girls Clubs, and After School Programs

- Consistent and Educational

- Same rules, same kit, same schedule
- Emulates real-world product development
 - Design to Cost, Design to Function, Time to Market
- Help solve an industry or global problem

- One team per school
- No limits on team size, student age
- All teams compete against one another

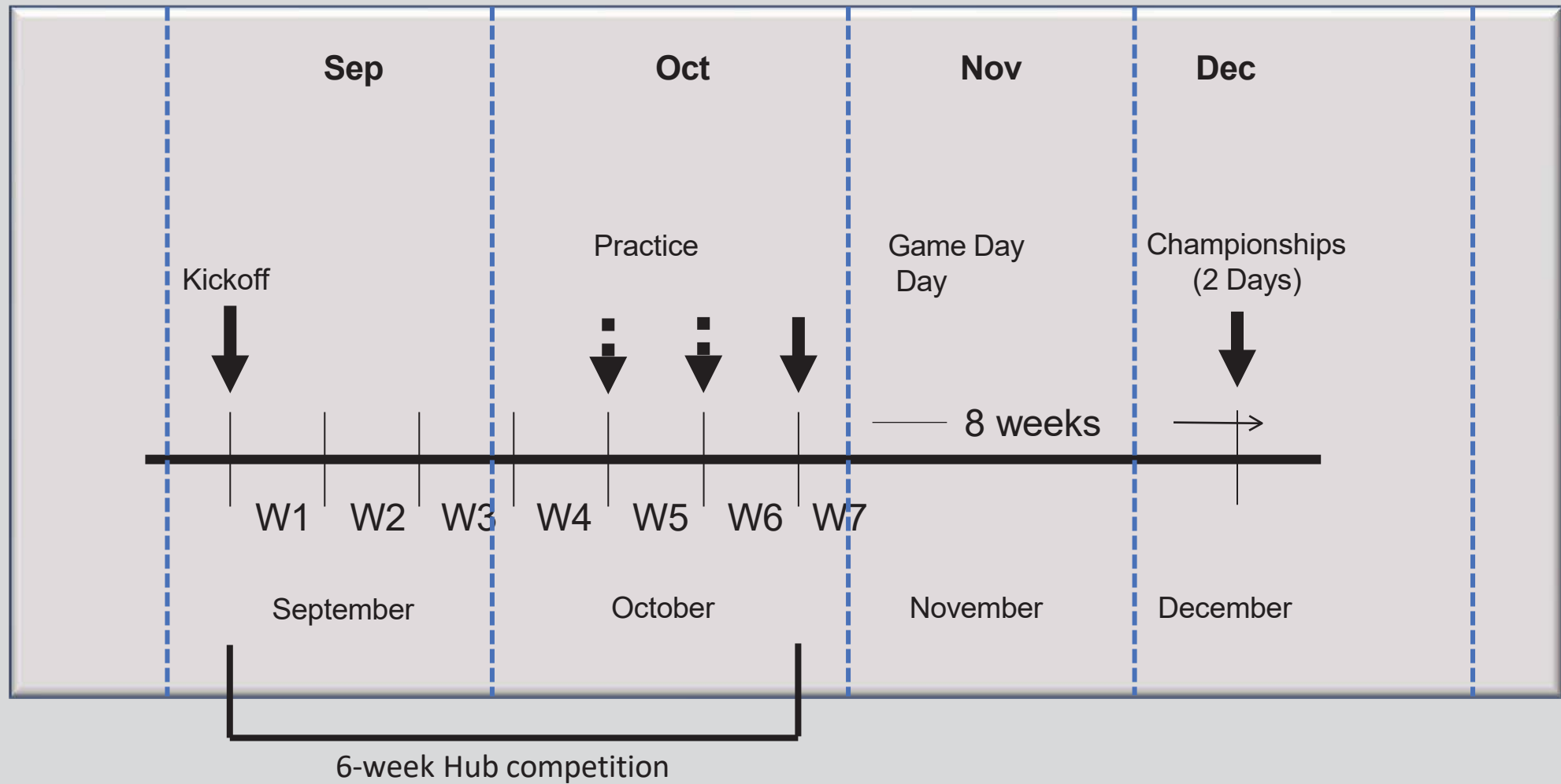


Competition Schedule



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BEST Events

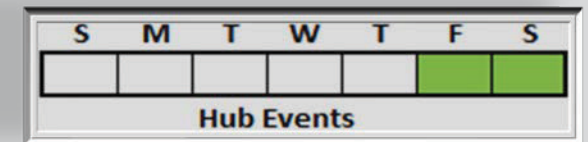


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- Kickoff Day
 - Unveiling of game, rules and judging schedule
 - Distribution of Kits
- Practice Day
 - At least one practice day on the game field
- Game Day (1 days)
 - Head-to-head competition & BEST Award judging
- Championship (2-3 days)
 - Top teams in head-to-head and BEST Award advance
 - Game Day among championship teams

Typically Weekend Events

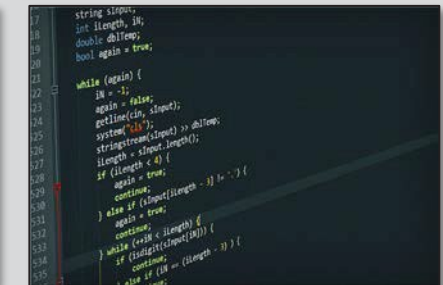
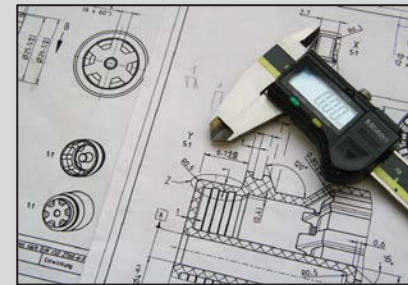
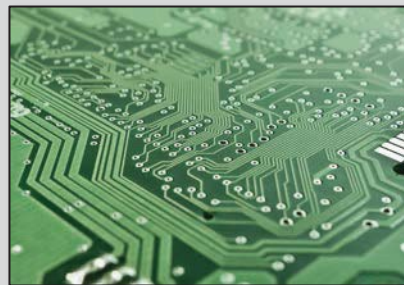
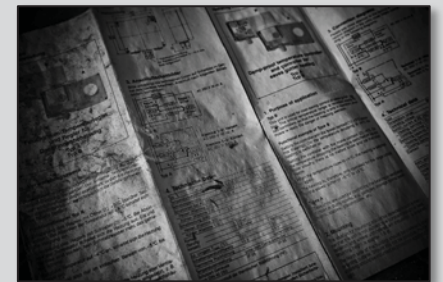
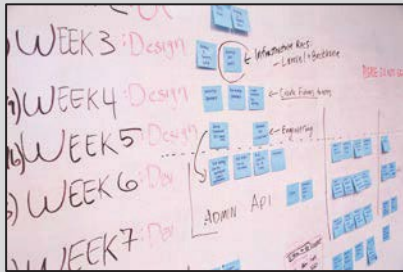


Emphasis is on a complete Product Development



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There are many design disciplines involved in a successful product development.

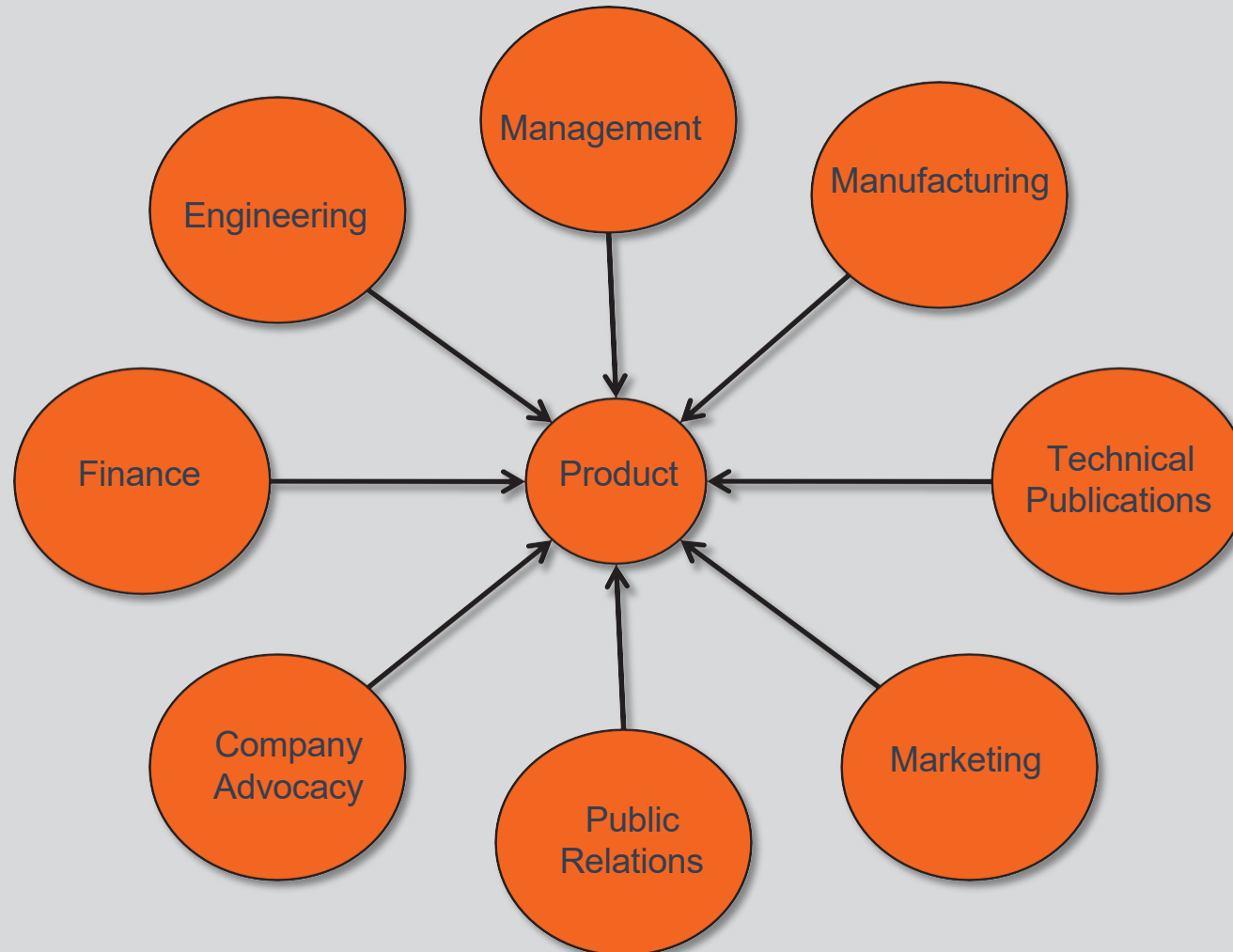


Product Development Disciplines



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In The
REAL WORLD

Product Development Disciplines



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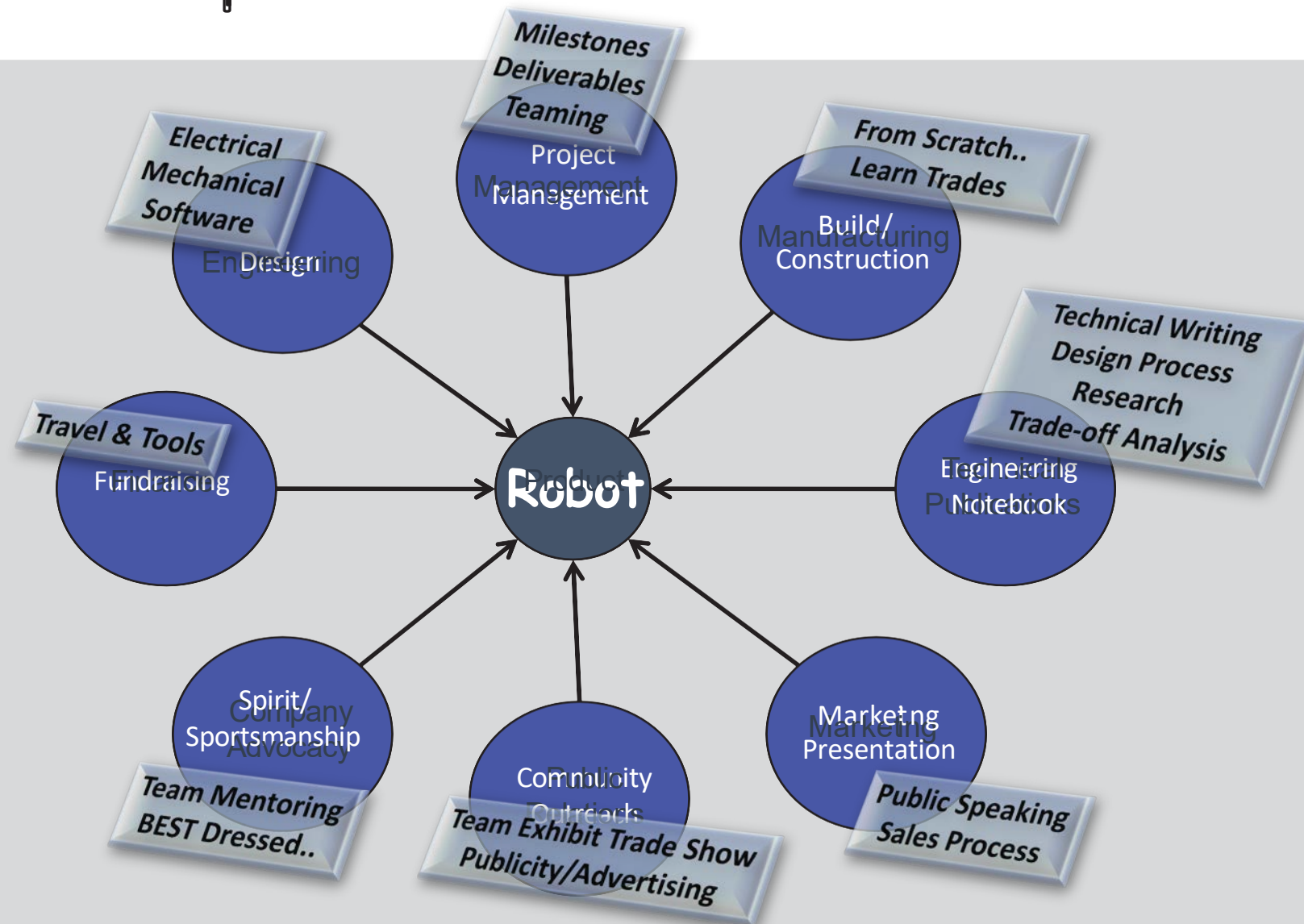
BEST emphasizes each of these design disciplines during the competition

Product Development Disciplines



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In The
REAL WORLD



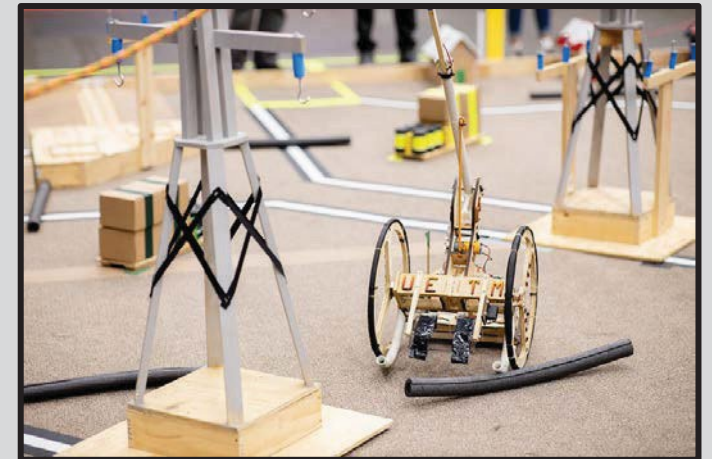
In The
BEST WORLD

Head-to-Head Competition

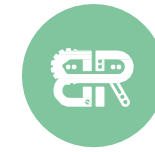


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- New educational theme/challenge and game field each year
- Challenge and field kept secret until Kickoff Day “unveiling”
- Playing field is typically 24’ x 24’ configuration
- Points awarded for successful completion of tasks
- 4 teams compete in 3-minute matches
- Progression
 - Round robin seeding phase (6-8 matches per team)
 - Wildcard phase (best remaining notebook scores)
 - Semifinals phase (8 or 16 teams)
 - Finals phase (4 teams)



Judged Activities BEST Award



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- Teams compete in the following required categories

- Engineering Notebook
- Marketing Presentation
- Team Exhibit
- Spirit and Sportsmanship
- Robot Performance



- The BEST Award

- Best overall score in all 5 categories

- Additional Design Awards

- Most Robust Design
- Creative Design
- Simulink Design Award

Industry Design Tools Available



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Robotics “Kit” is Provided



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- Returnables Kit
 - Loaned to the school for the duration of the competition
 - Electronics equipment used to power the robot
 - Microcontroller, motors, servos, batteries, sensors, wiring, etc.
- Consumables Kit
 - Expendable raw materials provided to the school
 - Materials used for construction of the robot structure
 - Plywood, PVC, metals, hardware, fasteners, miscellaneous

Basic Design Constraints



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- Teams may only use the materials and quantities provided in the KIT!
- Only two team custom parts may be used
- Final robot must be no larger than 24" x 24" x 24"
- Final robot must weigh no more than 24 lbs.
- Parts, size, weight, and methods are verified prior to Game Day

Student Expectations



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- Engineering Design Process
- Design & Construction
- Programming
- Driver-controlled and Autonomous Performance
- Documenting the design
- Marketing the design
- Publicizing BEST Robotics, the team, and the design

Annual Training

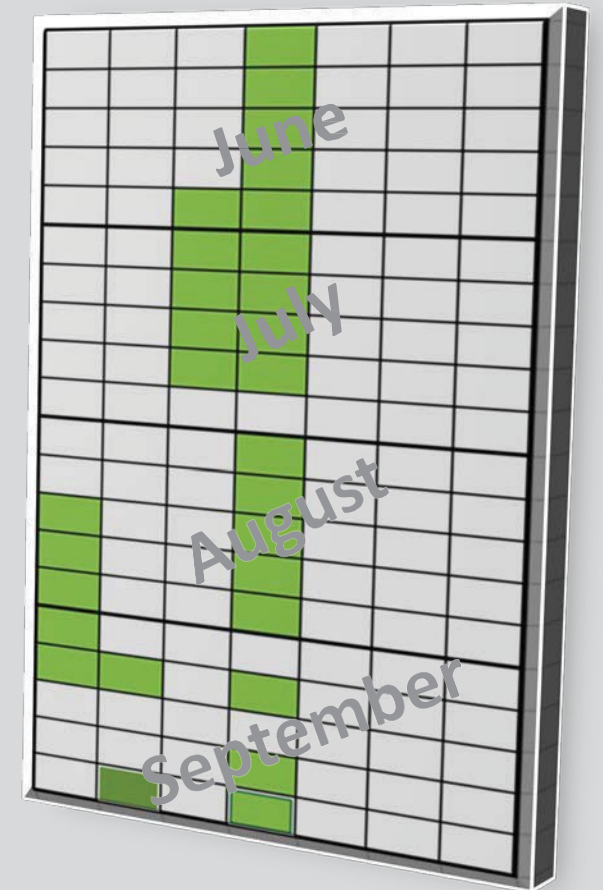


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- Workshops and Webinars on various topics
- Technical and non-Technical training
- Students, Teachers, and Mentors
- BEST Training Calendar
- BEST Education Courses

Training Calendar



BEST National Registry

<https://registry.bestrobotics.org>




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- Team Registration
- Participant Registration
- Competition Management
- Team Management & Access
- National Demographics, Surveys

	STUDENT	GENDER	PREVIOUS PARTICIPANT	GRADE LEVEL	PERMISSION	POST SEASON SURVEY	ATTENDING GAMEDAY	WORKFLOW ACCESS
ⓘ	Brown, Jim	M	No	8TH	✓	✓	<input type="checkbox"/>	None
ⓘ	Rocket, Johnny	M	Yes	12TH	✓	✓	<input checked="" type="checkbox"/>	Full Acc
ⓘ	Young, Halei	F	Yes	12TH	✓	✗	<input checked="" type="checkbox"/>	Full Acc
ⓘ	Young, Jenny	F	Yes	9TH	✓	✓	<input checked="" type="checkbox"/>	View O
ⓘ	Young, Valerie	F	Yes	11TH	✓	✗	<input type="checkbox"/>	None



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Best Online Challenge Information

BEST Online Challenge
Nationally, US
Program Type: Online

Post Season Survey Available 12/6/2020

Kickoff ↓ 11/1/2020 8:00am ↑ 11/1/2020 10:00am Online Event	Practice Day ↓ 6/1/2021 8:00am ↑ 6/1/2021 2:00pm Online Event	Game Day ↓ 7/3/2021 8:00am ↑ 7/3/2021 8:00pm Online Event
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39%

You are in Full Access Mode

Drivers Scheduler

Team Scoresheets

Website Design

Site Diskspace: 0.0 MB
Max Diskspace: 100.0 MB

Website Manager

Skill Competitions

BESTMania by Mathzing

Minecraft by UT Dallas

Team Information

School Dripping Springs High School
Team Name Dripping Springs High School

Hub BEST Online Challenge (US)
(512) 858-3100
940 Highway 290 West
Dripping Springs, TX

NCES No. 480000801508
Grade Levels High
Team Number #1201
Team Ticker DsHsBt

Student Registered 2
Post Season Survey Completed 0

Edit Team Info

What Next?



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- Become a Sponsor
- Register a Team
- Mentor a Team
- Volunteer
- Find an Event

<https://registry.bestrobotics.org>