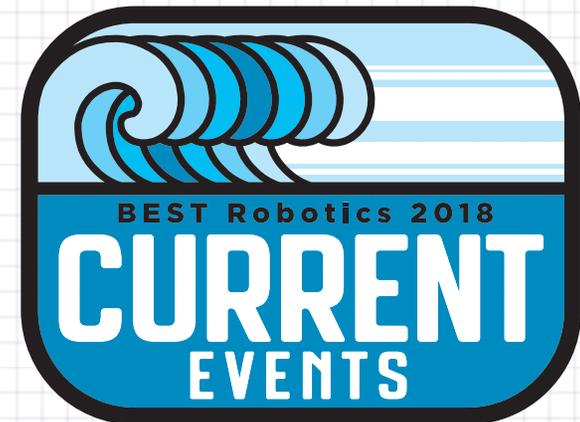


Music City BEST



Nissan and Lipscomb University College
of Engineering Welcome You To

CURRENT
EVENTS



Welcome Teams



1021	Lipscomb Academy	1034	Ensworth High School
1022	Dickson Area Robotics Team	1036	West End Middle School
1023	Borobotics Team	1037	Zion Christian Academy
1028	Brentwood Middle & High School	1038	Riverside Association of Robotics and Engineering (RARE)
1030	Merrol Hyde Magnet School	1042	Stewarts Creek Middle School
1031	Montgomery Bell Academy	1043	Blackman Middle School
1032	Smyrna Robotics Team	1044	Harpeth Hall
1033	Cannon County High School		

Note: team numbers now in 1000 range instead of previous year's 100 range due to National registry



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Congratulations



2017 South's BEST Winners

Music City BEST Kick Off Day 2018

2017 South's BEST



- Four Music City BEST Teams Advanced to South's BEST
 - DART, Discovery School, Merrol Hyde Magnet School, Stewart Creek Middle School
- 63 Teams Competed in South's BEST

2017 South's BEST



- Two Teams were Invited to the 1st Regional Invitational Tournament (RIT)
 - Cannon County High School, Smyrna Robotics
 - 16 Teams Invited
 - Top 4 Advancing
- Cannon County Advanced to South's BEST
- RIT will occur again this year

2017 South's BEST



BEST Award (59 Teams Competed)

Merrol Hyde Magnet School - 1st

Discovery School - 10th

Stewarts Creek Middle School - 12th

Dickson Area Robotics - 16th

2017 South's BEST



Robot Competition (63 Teams Competed)

Merrol Hyde Magnet School - 2nd

Stewarts Creek Middle School - 8th

Discovery School - 14th

Dickson Area Robotics - 23rd

Cannon County High School - 32rd

2017 South's BEST



Most Photogenic Robot
Merrol Hyde Magnet School - 1st

Team Exhibit & Interview
DART - 3rd

Most Robust Robot
Stewart Creek Middle School - 3rd

2017 South's BEST



Engineering Notebook

Merrol Hyde Magnet School - 3rd

Founders Award for Creative Design

DART - 1st

Stewarts Creek Middle School - 2nd

Middle School Award (2 schools)

Stewart Creek Middle School

2017 South's BEST



Igus Top Gun Award

(Most Points Scored in a Single
Match with 582)

Merrol Hyde Magnet School



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Universal Game Reveal

08/25/18



- 25th Anniversary Celebration
- Game rules and drawings became public after this date
- Video and Q&A
 - <http://www.youtube.com/bestrobotics>



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Music City BEST Website



musiccitybest.org

- If having trouble viewing, try <https://cps-vo.org/group/MCBEST>
 - Public site, **NO REGISTRATION** necessary
- Helpful game information
- Competition item submissions

CPS-VO

username ***** Log in ?

Not a member?
Click here to register!
Forgot username or password?

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NISSAN

TVA

BEST ROBOTICS

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Music City BEST Robotics

Home →

About

Calendar

Game Information Wiki

Team Demographics Form

Notebook Submission

Mentor Nominations

Teacher Nominations

Team Brags

Files

SUBGROUPS

- Music City BEST Robotics

MEMBER INFO

- 7 members
- Group Manager: MMeleko

BEST Robotics is a national nonprofit providing middle and high school students with a FREE STEM Education program and competition for career and workforce development. BEST is an acronym for Boosting Science, Engineering, Math, and Technology. The mission is to engage, excite, and inspire students to pursue degrees and careers in engineering, science, and technology.

Each fall, hubs across the country hold a 6-week robotics competition. There are more than 850 schools across 17 states, 4500+ volunteers, with 45 hubs, and 5 regionals.

The hubs rely on local financial support from businesses and universities. Any school may start a team, and there is no cost to participate. Anyone can start a new hub serving a minimum of eight teams.

Music City BEST Hub holds events at Lipscomb University in Nashville, TN. We welcome teams from across the state of TN and surrounding areas.

For more information on the BEST program, please contact Janice Cato at janice.cato@lipscomb.edu

Recent News

2018 Livestream Game Reveal
In celebration of BEST's 25th anniversary year, the 2018 game (... more)

2018 Music City BEST Hub Teams
Team registration for 2018 has closed and we have 15 teams for this... more

2018 Game: Current Events
This year's competition is Current Events. The game teaser can be... more

Upcoming Events

09/08/18
Music City BEST Kickoff Event

10/13/18
Music City BEST Practice Day

10/20/18
Music City BEST Game Day

REGISTER

Music City BEST Kick Off Day 2018



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Music City BEST 2018 Schedule



- Kick Off - 9/8
- Practice Day - 10/13 from 10 a.m. to noon
- Notebooks Due - 10/16 by 4 pm
- Team Brags Due - 10/20 by 8 am
- Competition - 10/20 from 8 a.m. to 6 p.m.
- South's BEST at Auburn - December 1 & 2



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2018 Team Submission Schedule



Tuesday - October 16 by 4 pm

- Uploaded to musiccitybest.org
 - Project Notebook
 - BEST Mentor and/or Teacher Nomination(s)
 - Team Demographics Form
- Team web site address emailed to mary.metelko@bestinc.org

Saturday - October 20 by 8 am

- Team Brags uploaded to on musiccitybest.org for Spirit and Sportsmanship judging

Team Notebook



- Flash drive with all Notebook Documents plus many other documents from BEST
 - Also available on <https://cps-vo.org/group/MCBEST/wiki>
- Field Pass - Two per Team
- Key Information Sheet
- Campus Map
- Competition Rules

Team Notebook



- Awards and Judging Specific Policies for Music City BEST
- Consumable & Returnable Kit Lists
- Generic Kit Usage Guide
- VEX and Software Information
- Demographics Submission Information
- Score Sheets and Nomination Forms
- Team Handbook



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Important Message for Students



- Music City BEST believes it is very important for students to acknowledge and appreciate the help and work provided by your teachers and mentors. Therefore, you will have the opportunity to nominate them for the BEST Teacher and BEST Mentor Awards.
- Music City BEST has decided to require each team to submit **AT LEAST ONE** nomination this year. It can be for either the BEST Teacher or BEST Mentor Award. We certainly encourage you to submit nominations for both awards, but we are requiring at least one.
- If a team does not submit at least one nomination, Music City BEST will deduct five (5) points from the Spirit and Sportsmanship component of the BEST Award.
- Your nominations will be submitted on on musiccitybest.org.



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Student Run / Student Work



- The teams are to be student run and the robots are to be the students' work
- BEST expects that the students will
 - Fabricate & build EVERY PART on the robot
 - Write the entire notebook
 - Develop the entire marketing presentation
 - Build & construct the team exhibit
- If you do not know the answer to a judge's question, find a team member who does

VEX Controls



Each team can choose from one of three methods for programming their robot

- EasyC - License Key in Team Notebook
 - Same key for all teams, see Key Information Sheet
- RobotC - See Download Instructions
- Simulink - See Download Instructions

Returnable Kits



- In 2016, Music City BEST changed the way returnable kits are handled
- Each team now keeps the returnable kit and reuses it each year
- Music City BEST will supply replacements for broken and failed parts as needed
- Each year, teams will be provided new parts as they are added to the kit

Returnable Kits



- Teams may purchase their returnable kit from Music City BEST
- Music City BEST cannot sell the returnable kits for the discounted price we receive
- Music City BEST is required to sell the kits at the current retail price VEX charges
- A new kit will be supplied the next year



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Kit List Changes for 2018



Consumables

- Returning items (from 2017 eliminations):
 - 1/4" polypropylene sheet
 - 1/2" diameter aluminum rod
 - Flat angle bracket
- Items removed (2018 eliminations):
 - 1/4" polypropylene covered shock cord
 - 1/2" or 1" rigid foam board insulation, 1' x 4'
 - piano wire, 12" long

Returnables - no changes



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Game Documents



Game documents and the official
Question & Answer site on the
BEST web site are the FINAL
authority for this competition

- Links available on
 - <https://cps-vo.org/group/MCBEST/wiki>

Game Day Information



- Competition matches in 3 minute segments with 4 teams per match
- Marketing Presentation
 - We will offer Marketing presentation slots on Friday evening between 6:00 pm and 9:00 pm
 - Presentations on game day will also be available

Team Exhibits



- Team exhibits will be located on the concourse as was done last year
- Friday volleyball game starting at 6:30 pm
- Athletics agreed to let students setup during game
 - Must respect the game attendees and remain on the concourse level - detail closer to event date
- Friday night setup for team exhibits will begin at 5:30 pm and run until 11 pm

Team Exhibits



- Arena doors will open early on Saturday
- Booth size restrictions 8'x8'x8' (height)
- South's BEST is same size restrictions
- Judges will visit exhibit throughout the day



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Wireless Devices



- No wireless devices will be allowed inside the playing field boundary
- Use of wireless devices outside the playing field boundary can interfere with the VEX controls
- **MOBILE HOT SPOTS WILL INTERFERE AND CAUSE ROBOTS TO DROP SIGNAL**



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Noise Level on Game Day



- In recent years, the noise volume in the arena has become dangerously high and harmful to the hearing
- The judges have felt the noise is being made simply for noise sake and is not associated with cheering and support for the competition
- Many people have complained that the whistles and loud banging distract from the competition and do not promote team spirit
- The judges are NOT giving points based on volume. Instead, they are judging based on the quality of the noise and how well it demonstrates team spirit



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Noise Level on Game Day



- Yelling, clapping, coordinated cheers, commercially recognized musical instruments, and shaker type noise makers (commercially available or made by the team) are highly encouraged
- Air or electrically powered horns and noise makers, vuvuzelas, whistles, and simply loudly banging on objects will not be allowed during the competition
- Audio in the team exhibits must a reasonable level



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National BEST Registry



- **ALL** team members (students, teachers, mentors) must individually register in the BEST National Registry **prior to competing on Game Day**
<http://bestnationalregistry.eventbrite.com>
- Team members will need their hub name and assigned team number in order to register
- Anyone can register multiple individuals
 - Students under age 13 must have parents do registration
- Documented proof (order # for all registered) in Engineering Notebook earns bonus



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BEST Simulink Design Award



- Any team using MathWorks MATLAB/Simulink to design their software is eligible
 - http://www.bestinc.org/b_simulink_award.php
- Award presented to one team in 5 BEST regions that best applies the ‘Simulink Support Package for VEX’
 - Frontier Trails, South’s, Texas, Denver and Pittsburgh
- Based on judging criteria and robot’s performance
- Trophy, MathWorks Hats, and Cash Award
- Submission and Judging will be done on-line
 - http://www.bestinc.org/simulink_award/form.php
 - Entries due by November 17th, 11 pm EST



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Design & Programming Software Tools



- Sketching software - 2D sketching
- Computer-Aided Design (CAD) software
 - 2D & 3D Solid Modeling
- Computer-Aided Manufacturing (CAM) software
 - 2-axis and 3-axis tooling
- Software Development (programming) and Simulation Environments
- Mathematics, Computational and Research software
- 3D Printer Driver software
- Technical Documentation Tools



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Design & Programming Software Tools



- 2018_Software_Access_Instructions defines steps for acquiring licenses and downloading/ installing complimentary software provided by our sponsors
- Using Intelitek easyCv6
 - 150-day license code
- All software and software licenses should only be used by BEST participants for the purpose of competing in the BEST program



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Software Design Award



- This required award and separate score sheet was eliminated
- Related criteria within the Engineering Notebook was updated/simplified and renamed to reflect the actual intent, Software Development Process
- There is no intent to judge the actual coding



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Notebook Scoresheet Updates



- Research Paper - analysis of game theme to technology impact throughout history
- Criteria Clarification
 - Software Development Process
 - Safety
 - Quality of Content
- Support Documentation - 5 bonus points for National Registry proof



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Marketing Presentations Scoresheet Updates



- Completely rewritten to improve clarity for students and judges
- Changes emphasize
 - Professionalism
 - Target Audience and Outreach Impact Data
 - Take Client Through the Sales Process
 - Use of Social Media



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Exhibit and Interview Scoresheet Updates



- Completely rewritten to improve clarity for students and judges
- Changes Emphasis
 - Outreach Data
 - Brand Experience
 - Sustainable Methodology and Resources
 - Communication Skills
 - Student Knowledge



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BEST Robotics National Logo Usage



- Include on all printed material, websites, tee shirts
- Link to <http://bestinc.org> on websites
- In order to count as a metric, all social media posts during or about your team's outreach activities should include
 - hashtag: #BESTRobotics
 - tag @BESTRobotics



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Social Media Usage Encouraged



- Facebook
 - <http://www.facebook.com/BESTRobotics>
- Twitter
 - <http://twitter.com/BESTRobotics>
- LinkedIn
 - <https://www.linkedin.com/company/16180567/>
- Social media Posts Suggestions
 - #BESTRobotics, @BESTRobotics, #BESTRobotsselfie!, #Thanks2BESTrobotics, #CurrentEventsBESTrobotics, #MusicCityBESTRobotics



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Social Media Usage Encouraged



WHO	HASH TAGS	EXAMPLE
Students	#Thanks2BESTRobotics #BESTRobotics25Years	#Thanks2BESTRobotics I'm pursuing a degree in engineering #BESTRobotics25Years
Alumni	#Thanks2BESTRobotics #AlumniBESTStudents #BESTRobotics25Years	#Thanks2BESTRobotics I landed my dream job @Google #AlumniBESTRobotics #BESTRobotics25Years
Teachers	#Thanks2BESTRobotics #ITeachBESTstudents #BESTRobotics25Years	#Thanks2BESTRobotics #ITeachBESTstudents so they can move us forward in the field of science #BESTRobotics25Years
Mentors	#Thanks2BESTRobotics #IMentorBESTstudents #BESTRobotics25Years	#Thanks2BESTRobotics #IMentorBESTstudents to pass the torch to tomorrow's engineers #BESTRobotics25Years
Volunteers	#Thanks2BESTRobotics #IVolunteer4BEST #BESTRobotics25Years	#Thanks2BESTRobotics #IVolunteer4BEST to give back to my community #BESTRobotics25Years