## 2016 Stewarts Creek Robotics Team Application

Name:		_
Email Address: Student		-
Parent		
Home Phone Number:		_
Cell Phone Number:		_
Grade: Gender:Male	Female	T-Shirt Size:
Ethnicity: (this is a required part for Bl	EST Robotics, Inc.	)
WhiteAfrican-American	Asian An	nerican
HispanicNative American	Other	
Years of Robotics Experience:		
If you have experience, describe your exp	perience with roboti	cs below:
Are you interested in a career in science, explain what field(s) you may be interested	ed in.	
Parent/Guardian Section I acknowledge that my son/daughter		
2016 Stewarts Creek Robotics Team. I my child. My son/daughter will be able		

understand that my child is required to attend local game day, October 29, 2016 (8:00 a.m. to 5:00 p.m.). I understand that power tools are used in the process of fabricating the robot and exhibit booth. My child is allowed to receive safety training and is allowed to use selected power tools if he/she is on the engineering/construction team. I understand that there is a \$30 robotics team fee for equipment and supplies.

Parent Signature:	Date:
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Please complete the following table. Place a check mark in each position to indicate the degree to which you would like performing the specific task. <u>Please be honest so that you can be placed in the position that will best serve the team and allow you to enjoy your experience with BEST.</u>

		Dislike				Like
Position	Description	1	2	3	4	5
Presentation	coordinate and design marketing					
(booth & "Suits")	presentation; will present at the					
	booth or in front of judges					
Web Design	Create, update and maintain team					
(supports	website and social media accounts					
presentation team)						
CAD Design/	use Inventor, 123D Design, or					
Drafting	Google Sketch Up program to create					
	computer drawings of the robot					
Photographer	document team activities through					
	photography					
Videographer	Create a video documentary of the					
	entire robotic team experience					
Community	Promote the program to community					
Relations	groups and media outlets					
Graphic	Create logos, t-shirt, and other					
Design/Artist	artwork for booth					
Programmer	Learn C programming and program					
	the robot					
Engineering	Design and construct the robot using					
(Robot Drivers &	power tools (intense commitment					
Spotters)	level- MUST BE AT ALL					
	MEETINGS!)					
Booth Design	Help design the team exhibit with					
C C	the product (robot) and game theme					
	in mind. Works with a decision					
	matrix to decide on the final booth					
	design.					
General	Assist with the booth construction,					
Construction	playing field, and other needed areas					
Rules Compliance	Make sure all rules for robot					
	construction are adhered to					
Desktop	Create team flyers, newspaper					
Publishing	articles, etc					
Notebook	Documentation of the engineering					
	process					
Spirit	Create mascot, cheer items, spirit					
	stick, etc					
Strategist	Develops a strategy for winning the					
	robotics game					

ALSO: Choose your 3 favorite teams and number them 1-3 (#1 being your top choice).

## 2016 SC Robotics Team Resume & Task Instructions

Dear STEM Students,

This year, our selection process for sub-teams will be different. Sub-team members will be chosen based on a student resume. Your resume MUST be professional and include the following information:

- General personal information (i.e. name, address, phone, grade, mini-school, homeroom teacher, etc.)
- Brief summary about you (this is how you hook your interviewer—why should you be hired?)
- Experience in the area in which you are interested (see sub-teams below)
- Special awards
- Skills
- Education
- Volunteer work
- Additional information (this is your last chance to impress your interviewer...)

Remember, this is a resume for a position on a specific team, so any prior experience in that specific area you can list will be very helpful. Below is a list of the sub-teams in which you are eligible to apply:

- Engineering- robot design, robot construction, potential driver positions, rules and compliance, etc.
- Strategy- game strategy
- Community Relations- handles all finances and donations, including fundraising and finding team sponsors
- Photography and Videography- keeps visual records of team progress
- Web Page Design- designs and creates team web page, as well as keeping record of team organization and demographics
- Project Notebook- handles the organization of the team notebook
- Marketing Presentation- marketing presentation team—sells the product (our robot) to a panel of judges
- Exhibit/Booth Design- designs the team exhibit/booth
- Construction- constructs the team exhibit/booth
- Spirit and Sportsmanship- Spirit Team (mascot/costume, cheers/chants, noise makers, posters, etc.)
- Graphic Design & Desktop Publishing- designs the team shirt with the game theme in mind and handles all event flyers
- Computer Aided Design (CAD)- will use a 3D software program to draw Multiview sketches of the robot and its parts, as well as the team exhibit/booth
- Programming- will use C based software to program the robot

Along with a resume, you are also responsible for a specific task. Resumes and tasks are due on the date of presentation. See the attached page for each sub-team's task and presentation/due date. You will stay after school from 3:30-5:30 on the day of your presentation.

## Sub-team Tasks and Due Dates

Sub-team	Task	<b>Due Date/Presentation Dat</b>
Engineering	Design and build an army man launcher that will launch an army man the longest distance. You will also be judged on	
	accuracy. You can only use rubber bands as the source of energy. Can Must follow and document the <i>Engineering</i>	
	Design Process. Pictures, hand drawn sketches, and CAD	Tuesday, September 6
	drawings (using Inventor, 123D Design, or Google Sketch	
	Up) are helpful in providing instructions for this task.	
Strategy	Create a game strategy that would earn our robotics team the	
Strategy	most points for the following game situation:	
	Rocket Race: The Alien Escape	
	Go to this web address for details of the game:	Tuesday, September 6
	http://www.bestinc.org/b_year_1999.php	raesaay, september o
	Your strategy must be presented digitally using Microsoft	
	Word, Excel, and/or PowerPoint (you could use Prezi	
	instead of PowerPoint).	
Community Relations	Devise a plan to get our team involved in the local	
·	community. Plan a specific event where the marketing and	
	engineering teams could present and/or demonstrate the	
	robot in order to gain publicity for the robotics team. Include	Friday, September 2
	all details of the event (location, time, event summary, etc.).	r nauy, september 2
	Your plan must be typed and presented electronically or	
	printed out.	
Photography	Create a portfolio of photographs that you have taken. Your	
	portfolio must promote a product. You may have the	
	pictures printed or create an electronic slideshow of your	Friday, September 2
	photography portfolio.	
Videography	Create a short video or movie promoting a product using	
	Movie Maker or any comparable program. The video must	
	have music; it could also include speaking parts, text or	Wednesday, September 7
	words, and sound effects.	
Web Page Design	Design, create, and publish a web page using Weebly	
0 0	( <u>www.weebly.com</u> ). Your web page must promote a	
	product. Your web page should include multiple pages,	Wednesday, September 7
	dropdown menus, pictures, video, and links to outside	
	sources.	
Project Notebook	First you must design a simple experiment (or use one from	
	STEM class), following the Engineering Design Process.	
	Document everything! Use your documentation and data to	
	create a digital notebook centered around your simple	Tuesday, September 6
	experiment. Include a title page, table of contents, each step	
	of the Engineering Design Process, a blueprint, and a	
	conclusion. You may use Microsoft Word, Publisher, or any	
	other comparable program.	
Marketing and Booth	Create a 3-5 minute presentation/speech promoting a	
Presentation	product. Your presentation must have visuals, such as a	Wadnesday St. (1) 7
	Prezi or PowerPoint. You may also use props as part of your	Wednesday, September 7
	presentation.	

Exhibit/Booth Design	Design an 8'x8' exhibit for the following theme:		
	Rocket Race: The Alien Escape		
	You must have hand-drawn or computer generated		
	blueprints with measurements, as well as Multiview	Wednesday, September 7	
	sketches. All blueprints must be labeled. You must also		
	describe what items would be in the exhibit.		
Construction	Design and build an army man launcher that will launch an		
	army man the longest distance. You can only use rubber		
	bands as the source of energy. As part of the construction		
	team, pay attention to the quality of the launcher. Must	Wednesday, September 7	
	follow and document the <i>Engineering Design Process</i> .		
	Pictures, hand drawn sketches, and CAD drawings (using		
	Inventor, 123D Design, or Google Sketch Up) are helpful in		
	providing instructions for this task.		
Spirit & Sportsmanship	Create at least five cheers or chants that could be used on		
	competition day. Make it interesting with noise makers,		
	posters, and props! You will be performing these cheers.	Friday, September 2	
	You have the option of partnering with other students		
	interested in Spirit Team.		
Graphic Design	Design a team t-shirt for the following theme:		
x 0	Rocket Race: The Alien Escape		
	You must have hand-drawn or computer generated sketches		
	in color. This needs to be completely original artwork, not		
	clipart from the computer. You may use online programs,		
	such as Paint, Paint.net, Custom Ink	Friday, September 2	
	(http://www.customink.com/services/t-shirt-creator), Spread		
	Shirt (https://www.spreadshirt.com/design-your-own-t-		
	shirt), etc. Save your design or use your computer's snipping		
	tool to save the image. You may bring a hand-drawn,		
	printed, or electronic copy of the design.		
Desktop Publishing	Design a team flyer for the following theme:		
2 controp 1 controlling	Rocket Race: The Alien Escape		
	You must have hand-drawn or computer generated sketches		
	in color. This needs to be completely original artwork, not	Friday Santambar 2	
	clipart from the computer. You may use online programs,	Friday, September 2	
	such as Paint, Paint.net, Publisher, etc. Your flyer needs to		
	include information about a team event, such as the robotics		
	competition at Lipscomb University on October 29.		
CAD	Design and create a 3D blueprint (or sketch) of a bridge.		
CAD	You may use Onshape, Autodesk 123D Design, Autodesk		
	Inventor, or Google SketchUp. Your bridge blueprint must	Tuesday, September 6	
	include specific measurements and be seen in multiple		
	views.		
Drogrammina			
Programming	Create a video game on Scratch ( <u>https://scratch.mit.edu/</u> ) or		
	Tynker ( <u>https://www.tynker.com/</u> ). You must incorporate at	Tuesday, September 6	
	least one sprite, changing backgrounds, music or sound, and	V · A	
	text. The code must allow the player to win or lose. You		
	must use a counter so the player can see the amount of		
	points they earned.		