



# Red Raider Robotics - Team 578

## Student Application 2017/18



### Deadline for Application: September 28, 2017 at 6:00pm

Please take a few minutes to fill out this application to be a part of R<sup>3</sup> – Team 578. Red Raider Robotics is a 12 month team participating in numerous activities in the fall and spring year with the greatest time commitment during January through March. There are many factors to consider when joining the team and we hope that you carefully consider these prior to submitting the application. Here are a few things you should know:

- Application must be **COMPLETELY** filled out on or before the above due date. Any applications received past this date will not be accepted. That student will need to wait until the following year to reapply for the team.
- If an application is turned in without being completed, said application will be rendered null and void, thus preventing the student from joining the team until the following school year.
- If this application is difficult for you to fill out, please speak with a faculty advisor or mentor immediately.
- Should you have any questions or concerns about the application or the completion of it, do not hesitate to contact the Flagship Board, the faculty advisors or lead mentor about your concerns.

### Section 1 – All Team Members Complete

Student Full Name: \_\_\_\_\_ Veteran \_\_\_\_\_ New \_\_\_\_\_

Grade: 9<sup>th</sup> \_\_\_\_\_ 10<sup>th</sup> \_\_\_\_\_ 11<sup>th</sup> \_\_\_\_\_ 12<sup>th</sup> \_\_\_\_\_

Nickname: \_\_\_\_\_

Student Email (must be a gmail account): \_\_\_\_\_

Home Address: \_\_\_\_\_ Student Cell #: \_\_\_\_\_

\_\_\_\_\_

Home Telephone: \_\_\_\_\_ Birthdate: \_\_\_\_\_

Parent/Guardian Name(s): \_\_\_\_\_

Parent/Guardian Phone Numbers: Mother: \_\_\_\_\_

Father: \_\_\_\_\_

Parent/Guardian Email Address: Mother: \_\_\_\_\_

Father: \_\_\_\_\_

Medical Insurance Company: \_\_\_\_\_

Student Physician: \_\_\_\_\_

### Student Experience:

Rate your experience/proficiency in the following areas; low, medium, or high.

Skill Area	Low	Medium	High
Accurate Measuring with a Ruler			
General Hand Tools			
Power Drill (hand)			
Drill Press			
Band Saw			
Sanders (power & hand)			
Welding/Soldering			
SolidWorks (CAD) - program			
Electronics			
Drive Train			
Software Design			
Graphic Design			
Creative Writing			
Project Management			
Event Management			
Marketing/Promotions			
Presentations/Public Speaking			

Which sub-team(s) would you like to be part of? (Each member of Team 578 will be cross-trained in at least 2 sub-teams)

Choices: 1<sup>st</sup> \_\_\_\_\_ 2<sup>nd</sup> \_\_\_\_\_ 3<sup>rd</sup> \_\_\_\_\_

- **Structures:** Designs & builds the mechanisms of the robot that play the game.
- **Drive Train:** Builds the basic frame and designs/assembles the components that allow the robot to move. Also designs and makes the bumpers to protect the robot.
- **Electronics:** Wires semiconductors & logic controllers along with drive system sensors.
- **Software:** Designs and creates code (in Java) that controls the robot in both autonomous and wireless modes.
- **Sparketing:** Maintain and improve the team so that it functions cohesively, works on maintaining relationships with other FIRST teams, creates cheers & dances, etc. Creates and maintains the team's media, such as the team website, social networking, photos, etc. Oversees sponsor relationships and team branding
- **Awards & Presentations:** Prepares all essays and presentations for the judges and our sponsors.
- **Game Management:** Analyze and develops game strategies, organizes scouting of other teams, and helps the drive team with alliance selections based upon data.
- **Safety:** Makes sure that the team is OSHA and FCSD compliant in all work areas and monitors team members/mentors for safe practices and emergency preparedness. Tasks include maintaining inventory of first aid kit(s), issuing safety reminders and monitoring the pit during competitions for safety and crowd issues.

**Activities involved with during:** (If you are participating in a winter sport, you may not be able to balance your robotics commitment and your sport. Please see a faculty advisor to discuss this.)

Fall: \_\_\_\_\_ Winter: \_\_\_\_\_  
Spring: \_\_\_\_\_

Do you have a part-time job? \_\_\_\_\_ Yes \_\_\_\_\_ No

If so, when do you work?

Monday: \_\_\_ Tuesday \_\_\_ Wednesday \_\_\_ Thursday \_\_\_ Friday \_\_\_ Saturday \_\_\_

During the build season (January through March) which days/nights you **CANNOT** commit to:

Monday: \_\_\_ Tuesday \_\_\_ Wednesday \_\_\_ Thursday \_\_\_ Friday \_\_\_ Saturday \_\_\_

### **Teacher Recommendation (ALL STUDENTS):**

Please ask a teacher you currently or have had in the past to share their thoughts on how you would benefit and/or be an asset to Red Raider Robotics. This recommendation should only be 2-4 sentences long. Please make sure that they sign where indicated.

*Dear Cooperating Teacher –*

*Thank you for taking the time to share your thoughts about this applicant to the robotics team. This student will be in touch with you at least two times during the school year to let you know what the club is doing and when our upcoming competitions are taking place. Thank you for your support of Red Raider Robotics!*

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Teacher Signature: \_\_\_\_\_

### **Section 2A - FOR NEW MEMBERS ONLY:**

1. Why you want to join Red Raider Robotics? What do you hope to gain by joining Red Raider Robotics? Be specific about skills, experience, and/or knowledge. This section should be between 3-5 sentences long.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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2. What specific skills and/or experience will bring to the team? Your skills/experience does not necessarily have to be related to technology but can only serve to help you. What you contribute to the team can be other skills/traits such as a willingness to learn, creativity, leadership, etc.

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3. How do your passions or interests connect to Robotics?

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**Section 2B - FOR VETERAN MEMBERS ONLY:**

1. What is Gracious Professionalism? List at least three (3) examples you have witnessed or have exhibited over the past year.

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2. What did you learn on your sub-team last year? How can you contribute what you learned to the team to improve Red Raider Robotics? (These contributions can be skills/lessons such as a willingness to learn, creativity, leadership, etc.).

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3. What suggestions do you have to improve Red Raider Robotics this year? Be specific.

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4. How will you mentor other team members, LEGO teams, and/or new team members? List the skills/experiences that you can share with these individuals.

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### Section 3 - FOR PARENTS TO COMPLETE:

Not all parents are engineers, but this team cannot function without parent and family involvement. Each family brings a unique skillset to the team and therefore, we ask each parent/family to share their skills with the team. **We also ask that each parent/guardian volunteers to help run at least one activity during the school year.**

Please fill in the following chart with the areas where you feel you can help out our team. We really appreciate all of your support in your child's participation in Red Raider Robotics!

Name:		Name:	
Car Pooling		Car Pooling	
Design		Design	
Electronics		Electronics	
Mechanical Engineering		Mechanical Engineering	
Event Coordinator		Event Coordinator	
Marketing		Marketing	
Software Engineering		Software Engineering	
Publicity		Publicity	
Sewing		Sewing	
Team Meals		Team Meals	
Team Snacks		Team Snacks	
Travel Coordinator		Travel Coordinator	
Social Media		Social Media	
Other:		Other:	

## Team Requirements & Commitment:

In order to participate on the Red Raider Robotics team there is a substantial time commitment for all of its members. You must:

- Maintain your grades and attendance in school.
- Follow “Blue Sheet” guidelines at all times.
- Adhere to FCSD Code of Conduct.
- Adhere to Team 578 Student Handbook and FIRST Core Values.
- Participate in all events with a positive attitude. **Leave the drama at the door!**
- Be an active part of your sub-team & follow all safety rules (team and *FIRST@*).
- Be a positive role model and mentor for other teams, LEGO teams, new/other team members.
- Participate in team activities, workshops, build nights, community service, fundraising, etc.
- Maintain 80% participation in scheduled meetings/events.
- Maintain accurate timesheets for all events, workshops, demos, mentoring, etc. including signing in for all team sanctioned events.
- Supply your own pair of safety glasses and bring them to every workshop or *FIRST@* event.
- Attend meetings & workshops (April through December).
- Attend mandatory Build Season work sessions (January through March).
- Have fun and gain knowledge from your experience.

I have read and completed the Red Raider Robotics Application. Being a part of the team is a privilege and in order to participate in any regional competitions I must comply with all of the expectations listed above. If I do not, I will not be included in any competition, scrimmage or team event.

Student Name (please print): \_\_\_\_\_ Date: \_\_\_\_\_

Student Signature: \_\_\_\_\_

I have read and completed the “Parent” section of the Red Raider Robotics Team Application. I understand that the team needs parent support and I am willing to help by volunteering during the season.

Parent Name (please print): \_\_\_\_\_ Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

