Pegasus Robotics Application

Due Date - Friday, February 28, 2020 to Mrs. DeBest (robotics coach)

Students & Parents,

Please understand that becoming a Pegasus Robotics team member is a serious commitment. You will be expected to attend a minimum of 4 weeks (or 20 days total) during the summer of 2020. The summer session runs from June 22, 2020 - July 31, 2020 (with no class on July 3rd & July 6th). In addition, you will be required to attend ONE weekly meeting/work time once a week from September 2020 - January 2021. Right now, I am looking at a Sunday session and one day after school. We will determine what day we meet after school once the team is selected as I will pick a day that works for most families. Your child will need to commit to only one of those days during the school year.

You will also be expected to attend and participate in three (3) VEX competitions on various Saturdays (dates will be posted late August). The competitions run from 7:30 a.m. to 5:00 p.m. Please make sure your parents agree to this type of commitment before taking the time to complete this application.

Application Process:

1.	**Written Application (attached)** This application will be used to select students for the Pegasus Robotics program for the 2020 - 2021 competition season. Please answer all questions in complete sentences and write legibly. We are looking for dedicated, organized, and responsible teammates. On the next few pages tell us why you wish to be on the Pegasus Competitive Robotics team and what would make you a valuable teammate.
2.	**Pegasus Student Robotics Contract** Read and sign the Pegasus Student Robotics Contract. By signing this, the student agrees to be a positive and productive team member. If selected to be on the team, it is expected that you will abide by the contract to be a positive and productive team member.
3.	**Teacher Recommendation** 2 teacher recommendations are due on February 28, 2020. It is your responsibility to give your teachers enough time to complete the form before the due date.
4.	**Financial Obligation** The Competitive VEX Robotics Team will be financially independent from Pegasus. The total cost of the program is $3,525. **Email Mrs. DeBest @ kdebest@thepegasusschool.org if you missed the parent meeting in December and want a copy of the full breakdown of costs, or if you have any other questions.*
5.	**Parent Release** Please sign and date below that your child is available to attend the summer program, the after school work time during the school year, and competitions described above if your child is selected to become a Pegasus Robotics team member. By signing below, you are also aware of the financial obligation for the Pegasus Robotics Team. Student Signature_____ Date: _____ Parent Signature_____ Date: _____

Pegasus Robotics Application

Applicant Name: _____ Current Grade Level : _____

Parent's Name:_____Parent Phone Number:_____

Parent Email:_____

Participated in 6th or 7th grade robotics? ☐Yes ☐No

Do you have any outside robotics experience? ☐Yes ☐No If YES, what program?_____

1. Describe what you hope to get out of robotics and why you want to be on the Pegasus Robotics team.

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2. Describe what **skills** and **habits** you can contribute as a member of the competitive robotics team.

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3. Describe any experience you have in programming.

4. Describe your note taking skills.

5. Look up and research the VEX competition for **2018-2019** called **Turning Point**.
    1. List the rules of the game in your own words.
    2. Draw a sketch of how the game field is set up.

        **You can add a separate piece of paper to this application if needed.

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Sketch of Turning Point game field:

6. Draw a three dimensional representation of a robot (you choose one), include labels on each type of drawing. Then add a description of what this robot could do.

Top View	Side View
Front View	Description of Robot

Team Roles

These are the main roles on a competition team. To make a successful team, I need one student in each position. Read the descriptions below to see what role(s) you think you would be best at.

Team Lead: Each team should have a designated leader who makes sure that everyone has a job to do and is on task. If there is a conflict, the team lead helps resolve the issue by listening to all team members input and providing a solution that is in the best interest of the entire team. The team lead may also fill in for students who are absent and should pair experienced students with novice students in a mentoring situation when appropriate.
Builder(s): This student oversees the construction of the robot. The entire team contributes to the research, brainstorm, and choosing the best design for the robot, but the builders are responsible for the actual assembly of the robot. There may be more than one builder, some may work on the chassis while others work on the lift. However, builders must have excellent communication skills and should be consistently reporting the progress and challenges to the entire team. This communication helps the notebook manager record the building process and helps the programmers with the motor locations and electrical connections.
Programmer: A programmer designs and writes an autonomous program for the robot. They need to discuss their strategies with the rest of the team and then program the robot to perform those strategies. Programmers will need to write their code using the competition template in VexCode. They will also program the VEX controller based on the driver's preferences for moving the robot on the game field.
Driver: A driver is responsible for operating the robot during the actual matches at a tournament. They will take strategic guidance from the team lead during the match, as they try and lead their team to victory.
Notebook Manager: The notebook manager records and documents all parts of the engineering design process in an engineering notebook. They are also responsible for making sure all team members contribute to the notebook. The notebook manager should include detailed designs, sketches, images, programs, concepts and testing results. This job is extremely important for the team's success and is a major portion of the rubric score for the design and excellence award.

7. Which of these roles do you think you would be the best at and why?

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Pegasus Robotics Student Contract

If selected to be on the Robotics team, it is expected that you will abide by the following contract.

Please <u>initial</u> each item and sign below if you agree to the following terms.

_____ I will consider EVERYONE'S solution and ideas and will not criticize anyone's ideas.

_____ I will cooperate on whatever solution the team chooses, even if it is not my first choice.

_____ I will treat my teammates, parent volunteers, and coaches with respect.

_____ I will treat the VEX equipment with respect.

_____ I will attend after school practices regularly and will notify Mrs. DeBest if I am unable to attend a meeting.

_____ I will attend and participate in the (3) VEX Robotics Competitions that take place on Saturdays.

_____ I will show other teams the utmost respect and good sportsmanship.

_____ I will not waste time at practice.

_____ I will communicate openly and honestly.

_____ I will actively listen to other's concerns and ideas and honor the confidences of others.

_____ I will strive for excellence by consistently giving my personal best.

_____ I will be accountable for my actions and behaviors.

Please understand that by signing this contract **<u>does not mean</u>** that you have been selected for the Pegasus Robotics team. In order to be considered for the team, you must:

- ❑ Get a parent signature on page 1.
- ❑ Complete all questions in this application.
- ❑ Turn in the completed application by the due date.
- ❑ Get 2 teacher recommendations.
- ❑ Initial the items of the student contract.
- ❑ Sign below.

Student Signature_____ Date_____

Teacher Recommendation for the Pegasus Robotics Team

Due: February 28, 2020 to Kathy DeBest

Students:
Please write your teacher's name and your name in the spaces provided below. You must have 2 letters of recommendation from any teacher you choose. The teacher can be your current teacher or your teacher from the previous school year. Please provide plenty of time for them to complete this form, which they will turn in to Mrs. DeBest's mailbox in the office.

Dear _____,
Teacher's Name

I, _____, am applying for the competitive Robotics
Student Name
program at Pegasus. As part of the process, I need a teacher's letter of recommendation. Please complete the following form and return to Mrs. DeBest by February 28, 2020**.**

Please rate the student listed above in the following categories.

5 = Excellent or All of the time **3 = Satisfactory or Most of the Time** **1= Needs improvement**

Behavior

1. How well does this student get along with others? 1 2 3 4 5
2. How well does this student behave in class? 1 2 3 4 5

Time on Task

1. How well does this student manage their time in class? 1 2 3 4 5
2. How often does this student turn in homework on time? 1 2 3 4 5

Contributions

1. How often does this student offer original ideas in class? 1 2 3 4 5
2. How often does this student volunteer in class? 1 2 3 4 5

Technology

1. Is this student responsible with their use of tech in the classroom? 1 2 3 4 5
2. How comfortable and creative is this student with technology? 1 2 3 4 5

Teachers:
Do you think this student would be a good member on the Pegasus Robotics Team? ☐ Yes ☐ No

You may add any additional comments to the back of this page if needed.
Please return this to Kathy DeBest by February 28, 2020

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