FEDS - Falcon Engineering Design Solutions
Student Application 2017-2018 Season
Application Due By: Friday, Sept 29th, 2017

STUDENT / PARENT INFORMATION

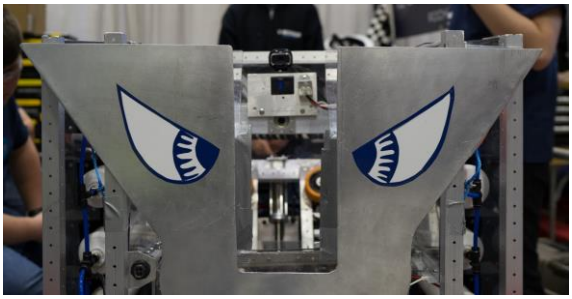
INFORMATION SOURCES:

www.facebook.com/feds201 | feds201.com | feds201@gmail.com

PROFILE OF A TEAM MEMBER:

- ✓ A team player.
- ✓ Highly self-motivated; able to see and follow up on opportunities to help.
- ✓ Hard-working and punctual.
- ✓ Willing to learn, open to new ideas, asks questions for understanding.
- ✓ Able to receive and respond to constructive criticism.
- ✓ Required to keep your grade for each class above 70%.
- ✓ Willing to exhibit spirit for the team and HAVE FUN.
- ✓ A student eager to:
  - Learn more about mechanical skills, electrical skills, practice writing skills by publishing newletters, build websites, create machine designs using computer-aided design (CAD), building playfield and machines (robots) to accomplish a task.

REQUIREMENTS OF A TEAM MEMBER:



- **Fundraisers**
  - Fall and Spring can drive
  - Holiday Season Outreach
- **Pre / Post-Season Outreach**
  - Sponsor Night (spring)
  - STEAM based events (at least two)
  - Maintenance of the RHS garden (spring, 10 students maximum)
- **Sessions**
  - Fall Training (Thursdays 7:00 – 9:00 pm starting October 12th).
  - Attend activities after school M-F (6:00 pm – 9:00 pm) & Sat (9:00 am – 5:00 pm)
  - Build and Competition Seasons (January – April).
- **Students may be invited to the following Competitions**
  - Two in-state competitions on Friday/Saturday
  - Possibly one out of state competition that would take place from a Thursday through Saturday
  - If we qualify, Michigan State Championships (mid-April)
  - If we qualify, World Championships held in Detroit, MI (late April).

NOTE: Absences from school are exempted. Classwork must still be completed (extended completion dates are usually permitted, but must be discussed with the teacher by the student).

STUDENT / PARENT INFORMATION (CONT.)

- Attendance at after school activities and Saturday events is required for team members. Attendance and participation will be tracked. By consensus of the mentors and teacher mentor, excessive absences or lack of participation at meetings or events may result in the student not being allowed to attend a competition or dismissal from the team.
- During meetings and competitions students will follow the rules of conduct for behavior and all procedures as required by the Student Code of Conduct. Violation will result in disciplinary measures as decided by the mentors/teachers and the RHS Administration. If this occurs at an off-site activity, the student may be sent home at the expense of the parents.
- Safety is paramount. All students will follow the directives of the mentors/teachers and safety leaders at all times. Questions regarding these directives are to be addressed with the mentors/teachers. All participants must supply and wear their own safety glasses, as well as closed toed shoes, and hearing protection as needed.
- Any team member receiving a referral or suspension from school for reasons not related to the team may be subject to a review for possible dismissal from the team.
- Students must maintain acceptable grades in order to travel and/or participate with the team. Team members will be required to provide regular grade updates throughout the season. **Failure to submit grade sheets as required will make the student ineligible to travel with the team to a competition**.
- Class grades must be maintained at or above expected levels. Students whose individual class grades fall below 70% will meet with the teacher mentor to discuss a plan of corrective action. Failure to improve may result in removal from the team. School and grades are a first priority.
- All Student team members are required to pay a non-refundable club fee (payable to RCS) of $30 and a registration fee of $150, by September 29th, 2016 with this application. Contact the teacher mentor for payment arrangments if a hardship exists.
- Transportation for after school activities is to be provided by parent or student.
- Regional and national event transportation will be arranged by the team. Students are NOT allowed to drive to off campus events.
- Electronic devices for recreational use (games, iPods, tablets, etc.) other than cell phones are not allowed at team meetings. All other electronic equipment is to be used in accordance with RCS Technology Agreement (no computer games or other inappropriate behavior). Cell phone use during team meeting discussions shall limited to ensure all team members are properly informed.

STUDENT APPLICATION CHECKLIST

DATES TO SCHEDULE:

- **All applications are due on or before Friday, September 29th, 2017 at the RHS main office.**
- **Mandatory** orientation meeting for students and their parents, **Tuesday, September 19th, 7:00 pm** in the RHS Media Center.
- Fall meetings will begin on Thursday, October 12th at 6:00 – 9:00 PM. These are training sessions, they are **mandatory** to attend. These are designed to allow students to become familiar with the design, build, and programming aspects related to a competitive robot. We will announce official schedule once we have a total student count.

What is to be turned in by Friday, September 29th, 2017:

- STUDENT SECTION (Page 4-5)
  - ☐ Completed, Signed, and Dated
  - ☐ Attach Parent Section
  - ☐ In an envelope, turn into RHS main office addressed to: Mrs. Nasiadka, Rochester Robotics
  - ☐ Final grades from the 2016-2017 school year (printed from myRCS)

- PARENT SECTION (Pages 6-7)
  - ☐ Completed, Signed and Dated
  - ☐ Attached to Student Section
  - ☐ **ICHAT Form** for participating parents
  - ☐ **Driver Form** for Parents that will be transporting students at any time in the season
  - ☐ **RHS Club Fee** Contract with $30 club fee ***(it is highly recommended this be paid online)***
  - ☐ **A separate check for $150** FEDS registration fee (payable to RCS, non-refundable once season starts)

- TEACHER RECOMMENDATION **(optional for returning students)** (Page 8)
  - ☐ Teacher recommendation. **This recommendation is to be turned into the RHS Main Office by the teacher and addressed to: Mrs. Nasiadka, Rochester Robotics**. For incoming freshmen, the recommendation can be sent to MNasiadka@rochester.k12.mi.us. Please give the teacher adequate time to complete the recommendation.

What the student keeps:

- Student / Parent Information (page 1-2)
- Check List (page 3)

Questions?

- Contact Mrs. Nasiadka at feds201@gmail.com or 248-894-3017
- Or contact Mr. Bennett at feds201@gmail.com or 248-928-6056

FEDS 201 - STUDENT SECTION

GENERAL INFORMATION: (Please Print Legibly)

First Name: _____ Last Name: _____

Graduation Year: _____ Student E-mail: _____

Home Phone: _____ Student Cell Phone: _____

You will work in subgroups with others of similar interests and objectives. This section is used to determine where you may be placed. Please complete *all* of the following:

I am primarily interested in (check ONLY one):

- ☐ Graphic Design/Photography
- ☐ Programming
- ☐ CAD
- ■ Hands-on work:
  - ☐ Mechanical (Build Structures, Gearboxes and Mechanisms)
  - ☐ Electrical (Wiring Connectors, Encoders, Sensors, Motors, Controls)
  - ☐ Machining (Using Mill, Lathe, and Welder to Fabricate Parts)
- ☐ Business (Planning, Newsletters, Accounting and Marketing)
- ☐ Safety (Safety Capitan for Meetings and Events) – ***Limited to 3 Students***
- ☐ I'm not sure yet

I understand and commit to:

- ✓ Maintain my grades in each class at 70% or higher, and will get help if my grades could put me and/or my team in jeopardy.
- ✓ Attend team meetings and activities while following the RCS code of conduct. Any absences must be accompanied by an explanation via email to feds201@gmail.com and a discussion with the teacher mentor or team lead.
- ✓ Arrange my own transportation to and from school. Prompt pickup at meetings' end is appreciated.
- ✓ Submit $30 to cover my RHS club fee, and $150 FEDS registration fee.
- ✓ Participate in at least two fundraising activities throughout the year.
- ✓ **Work Hard** - This is a dedicated team preparing for competition against some of the best robotics teams in the world. Hard work is a requirement.

Answer the following questions in the space provided and in complete sentences.

What other extracurricular activities do you, or plan to, participate in? If so, would they conflict with robotics in any way?

What skills are you looking to learn or expand on by becoming a member of The FEDS? Why did you select the category of interest that you did? Do you have a second choice, or be willing to accept being placed anywhere else?

What experiences or skills do you have that you will contribute to the team? Have you ever been a leader in any other clubs or activities?

Please attach a copy of your latest report card printed from myRCS

By signing below, I acknowledge I have read the FEDS 201 Student / Parent Information Sheets and I understand and agree to the commitments required for this team.

Student Signature: _____ Date: _____.

FEDS 201 - PARENT SECTION

FIRST Robotics Team FEDS 201 requires parental support throughout the season in order to be successful. We are in great need of additional parent mentors in all areas. New parents need to begin mentoring so they can take over as experienced mentors "retire". It is a very fun and tremendously rewarding experience to teach students new skills they may potentially choose as career paths. Unfortunately, the team will cease to exist without a solid rotation of committed parents. There are two options for parents that would like to be involved – Volunteers or Mentors.

Parent Volunteers:

This area is aimed for the parents who want to help, but may not want to be involved in team operation. Please check as many as desired.

- ☐ Scheduling and coordinating food (a few hours/week, generally Saturdays)
  - Coordinate procurement of food (using team funds)
  - Coordinate parent provided meals and snacks

- ☐ Transportation / Chaperones (occasional involvement, arranged before each event)
  - ☐ Give rides to and from team fundraising event(s) and/or competition(s)
  - ☐ Travel with the team for overnight competition(s)
  - ☐ I cannot travel with the team but will help coordinate travel arrangements

- ☐ Fund Raising (a few hours a week maximum, flexible schedule)
  - Develop new and innovative ways to provide fund raising opportunities
  - Coordinate fundraising and student involvement

- ☐ Event Volunteer (two or more days a season)
  - Assist at a FIRST event as a volunteer (check if interested, more info later)

- ☐ General Build Season Help **(January – April)**
  - ☐ I will drop in occasionally
  - ☐ I will work with the team each week:

    Day(s):_____ How many hours:_____

Parent Mentor:

This area is aimed for the parents who want to help, and want to be involved in team operation. They are willing to make a steady commitment to help the team on a consistent basis and don't mind working with groups of students to expand their knowledge and skills.

I have expertise in and will assist with:

- ☐ **Programming –** Train and supervise students in the art and science of programming. Training tools are available on the US FIRST website. Programming tools used include *LabVIEW*, C++, Java.
- ☐ **CAD –** Train and supervise students in application of animation and computer aided design programs to develop component drawings, animations, and conceptual artwork. Tools used include *Autodesk Inventor* and *Dassault Systems' SolidWorks*
- ☐ **Electrical –** Train and supervise students in proper assembly and wiring of electronics and electrical components, and design circuits as required.
- ☐ **Mechanical –** Train and supervise students in component build including metal work and machining; drivetrain development and build; maintaining a clean and orderly shop environment.
- ☐ **Carpentry –** Train and supervise students in the building of a practice field; use of wood shop tools (power and hand); building robot crate to specifications, maintaining a clean and orderly shop

environment.

- ☐ **Communications / Business –** Train and supervise students in developing a comprehensive program communication plan including designing and creating team buttons, banners, flyers, competition pit signage, information brochures, etc. Also lead students in the development of FIRST program award applications.
- ☐ **Travel Coordination** – Working with adult mentors to arrange transportation, lodging and meals associated with team competitions; developing and maintaining associated budget; negotiating with service providers for group / student discounts.
- ☐ **Sponsor Opportunities** – Identify and solicit sponsorship support from the community including civic and private organizations. (help can be provided, examples are available)

Read and sign the following:

- I have read the "FEDS 201 Student / Parent Information"
- If my son/daughter is to be a participant of the Rochester High School FIRST team, FEDS 201, I understand that **I am responsible for all of the following**:
  - Transportation to and from school (or meeting place) for my son/daughter.
  - Paying a non-refundable $30 club fee, and paying a registration fee of $150 for my son/daughter by the required dates. I also acknowledge there may be other expenses incurred with travel associated with participation on FEDS 201.
  - Actively supporting additional FEDS 201 team fundraising events.
  - Providing some of the food or associated materials (paperware, plastic ware) for at least two Saturday lunch for the team during the build season.
  - Assisting in transportation and chaperoning (for competitions and/or practices)
  - Picking my child up **ON TIME** at the end of each meeting or event. Failure to do so may result in your child being removed from the team.

I will support my son/daughter and I will commit to support this program.
(Please Print Legibly)

First Name: _____ Last Name: _____

Parent Signature: _____ Date: _____

Parent Email: _____

Home Phone: _____ Cell Phone: _____

FEDS 201 - TEACHER RECOMMENDATION

(OPTIONAL FOR RETURNING STUDENTS)

Participation on the FEDS 201 Robotics Team requires significant dedication by the student. This application should only be submitted by students who will be committed to the program. New students are to obtain a recommendation from a teacher to whom they have demonstrated their ability to remain committed to a task. A teacher is to complete this form and return it according to the instructions below. Middle school teachers are acceptable for incoming freshmen.

Applicant name: _____

Teacher's Name: _____ School: _____

Phone #: _____ Email: _____

- Of the characteristics below, indicate those you have observerd the student demonstrate:
  _____ Team player _____ Self-motivated _____ Hard working
  _____ Open to new ideas _____ Willing to sacrifice _____ Punctual
  _____ Willing to commit to the amount of time needed for a big project

- How long have you known the student? _____years, _____months

- Have they participated in any activity/club that you sponsored in the past? _____

  If yes, please list activity/club and amount of time you spent with the student.

  ACTIVITY: **TIME SPENT**:

  _____

- Do you know this student to be an asset to a club/team? _____

- Overall, is there anything that you would like the FEDS 201 team teacher and mentors to know about the student prior to the selection?

_____

_____

_____

Signature of Teacher: _____ Date: _____

To allow for an objective evaluation, **please do not return this form to the student**.

- **RHS Teachers**: Please place the form in the Rochester Robotics school mailbox by October 2nd. The students will not see the completed forms.
- **Other Teachers:** Return form to Marisa Nasiadka at MNasiadka@rochester.k12.mi.us. You may also call Marisa directly at 248-894-3017.

Attachment A
Revised 2/22/2016

ROCHESTER COMMUNITY SCHOOLS
VOLUNTEER GUIDELINES AND *ICHAT* AUTHORIZATION FORM
2016-2017

Volunteer Guidelines

Volunteers to the Rochester Community Schools may be used on a temporary basis to give support to a classroom or program. The following guidelines are to be used as volunteers are assigned to classrooms or programs:

- Volunteers are appreciated but should not be a distraction to the school environment.
- If a volunteer will be with students for a significant length of time **without a RCS employee being present**, or will be with students on **a regular basis**, that volunteer will be required to have a Michigan State Police Internet Criminal History Access Tool (ICHAT) screening annually. The results of this ICHAT criminal background check will remain confidential and will only be used by School District administration to determine if you have been convicted of an offense that would otherwise prohibit you from working in our schools.
- Please only complete **one form per school year**. ICHATs must be run every school year.

ICHAT AUTHORIZATION -

PLEASE PRINT CLEARLY ** = Required Field*

Please return this form to your building secretary and/or appropriate department for review.

*Teacher's Name: _____ *School Building(s): _____

*Legal Last Name: _____ *Full Legal First Name: _____ *MI: ___

*Phone Number: _____ Alternate Phone Number: _____

*Student(s) Name(s): _____

*Race: *Indicate best option per ICHAT system choices:* ✔ *Check one*

- ○ White
- ○ Black
- ○ Asian or Pacific Islander
- ○ American Indian or Alaskan Native
- ○ Unknown/Other

*Gender: Male ☐ Female ☐

*Birth Date: ____ / ____ / ____
MM DD YYYY

*Maiden/Other Last Name: _____ *Other First Name: _____ *MI: ___

***Reason for Background Check:** ✔ *Check all that apply*

- ○ Band Boosters
- ○ Classroom Volunteer
- ○ Camp Chaperone
- ○ Club Sponsor: *_____
- ○ College Field Placement
- ○ Enrichment/BASES Program: *_____
- ○ Field Trip Chaperone - ***Date of Trip:** _____
- ○ Student Teacher
- ○ Summer Music Theatre
- ○ Volunteer Coach / Assistant Coach
- ○ Other: _____
- ○ Other: _____

My signature below is representative of my approval for the Rochester Community Schools Human Resources Department to conduct a criminal background check against my records using the Michigan State Police ICHAT system.

*Applicant Signature: _____ Date: _____
(No electronic signatures will be accepted.)

(For Office Use Only)

BUILDING SECRETARY: To avoid running duplicate background checks and accruing additional fees, please initial here that you have reviewed this form and have checked the master list before sending to Central Office: _____

☐ Approved Date: _____ ☐ Not Approved Date: _____

DRIVER/OWNER INFORMATION FORM

Field Trips using non-District owned or operated vehicles

Teacher's Name _____ Driver's Cell Phone # _____

Driver Information Section:

I certify that as a driver of a private vehicle transporting students to a school sponsored function:

- I am at least 18 years old and have been a fully licensed driver for a period of at least one calendar year.
- I currently possess a valid driver's license that does not have any legal restriction, limitation, or suspension associated or attached to it.
- I possess insurance coverage on the vehicle that I will be driving, including liability coverage in the amount of at least equal to the minimum required by the State of Michigan.

  Insurance company name: _____
  Policy number: _____
  Policy expiration date: _____
  Agent's name: _____
  Agent's phone number: _____
  Driver's License Number: _____

- I give permission to Rochester Community Schools to check my driver's license record.
- I am not aware of any mechanical defect or problem with the vehicle that might make it unsafe for purposes of this trip.
- I agree to transport no more than the number of persons for which the vehicle is designed and insurance rated. I will make sure that all passengers utilize the available safety restraining system, and I will not pick up hitch hikers.
- I will insure that infants and small children are buckled up in child/infant safety seats that are age and size appropriate in the rear passenger seats.
- I will make sure that children under the age of 13 will ride properly belted in the rear passenger area only.
- I will make sure that all adult passengers, particularly people under five feet five inches tall, are properly belted and front seats moved back as far as possible, or ride in rear seats.
- I understand that I am in charge of this vehicle. I will see to it that no occupant, including myself, consumes alcoholic beverages or illegal substances in or around this vehicle. I will not drive while using a prescription drug that indicates that I should not drive while taking the medication.
- Have you ever been convicted of a felony? ____Yes ___No

If yes, please identify the felony _____.

- I am not a registered sex offender.

SIGNATURE OF DRIVER: _____ DATE: _____

PRINT NAME OF DRIVER: _____

RELATIONSHIP TO STUDENT: _____

Vehicle Owner Authorization Section:

I am the owner of a vehicle (make, model, and year): _____

with _____ number of seat belt positions in the rear passenger area.

I hereby authorize the following named individual, _____

to drive said vehicle, utilizing appropriate safety restraining systems, and adhering to manufacturer established passenger capacity limits.

I certify that I have read, understand, and completed the requested information from the "Driver Information" and the "Vehicle Owner Authorization" sections of this document.

SIGNATURE OF VEHICLE OWNER: _____ DATE: _____

I have reviewed the information provided above and approve the use of the above mentioned vehicle and participation of _____ as a driver for this activity.

SIGNATURE OF PRINCIPAL: _____ DATE: _____