

H.V. Jenkins High School

Team #4701

TEAM W.I.R.E.

“Warriors In Robotics Education”



2018-2019 Team Handbook

[www.hvjrobotics.weebly.com](http://www.hvjrobotics.weebly.com)

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## 1. Introduction

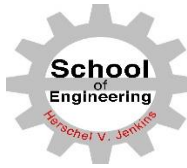
This handbook is supplied as a primary source of information for the members of the H.V. Jenkins High School Robotics Team #4701 - TEAM W.I.R.E., their supporters and families. The contents of this handbook are current as of August 1, 2018. Details may change as the year progresses – in particular, meeting schedules. HVJ's Robotics team or TEAM W.I.R.E. - is a multicultural / multi-grade team of students engaged in bringing an interest for STEM (Science, Technology, Engineering and Math) to our school and community by participating in yearly FIRST® and VEX Robotics competitions, mentoring younger children and community outreach. Through these experiences, students are learning important skills that will aide them in becoming an outstanding student and future professional. What will they get and learn from participating? Work Ethics, Real World Problem Solving Skills and hopefully qualify for millions in college scholarships, Creative Design, Programming, Strategic Planning and Thinking, Teamwork and Cooperation, Improve Time Management and Conflict Resolution Skills, Learn and use sophisticated software and hardware and Responsibility. You will also get to attend competition events around the State of Georgia. Oh! And by the way, get to build a pretty cool robot.

## 2. Team History

In 2013, H.V. Jenkins started TEAM W.I.R.E as an extracurricular support activity for our School of Engineering and to give students an opportunity to apply what they learn from the PLTW® and engineering course work. But, we are also not limited to just School of Engineering students. We participate in FIRST Robotics program (<http://www.firstinspires.org/robotics/frc>), as FRC Team #4701. (The acronym for FIRST is; **F**or **I**nspiration **I**n **S**cience and **T**echnology and **F**RC is for; FIRST Robotics Competition). Our first year, we had a membership of about 11 total students. We use the Engineering Lab at Jenkins (room #100) as our meeting and build area. We also support a VEX Robotics teams, VRC Team #1354. We have found that VEX Robotics (<http://www.vexrobotics.com/competition?ref=hometile>) is an excellent starting point for some students interested in Robotics. Since 2013, our team has participated constantly in FRC in- and off-season events. We participate in two District events around the state every year under the Peachtree Georgia FIRST Regional. We annually volunteer at the Coastal Kids FLL (FIRST Lego League) Tournament at Savannah State and we also participate in STEM Nights at local elementary and middle schools throughout the year promoting STEM, FIRST and HVJ.

## 3. Team Sponsors / Partnerships

Without the support of our members, families, HVJ School of Engineering Robotics and sponsors / partnerships our robotics team would not be able to compete in district and regional events. We appreciate the following organizations for the funds given:



HUSSEY GAY BELL  
Established 1958

DIRTT  
Build better.™

THARPE  
ENGINEERING GROUP

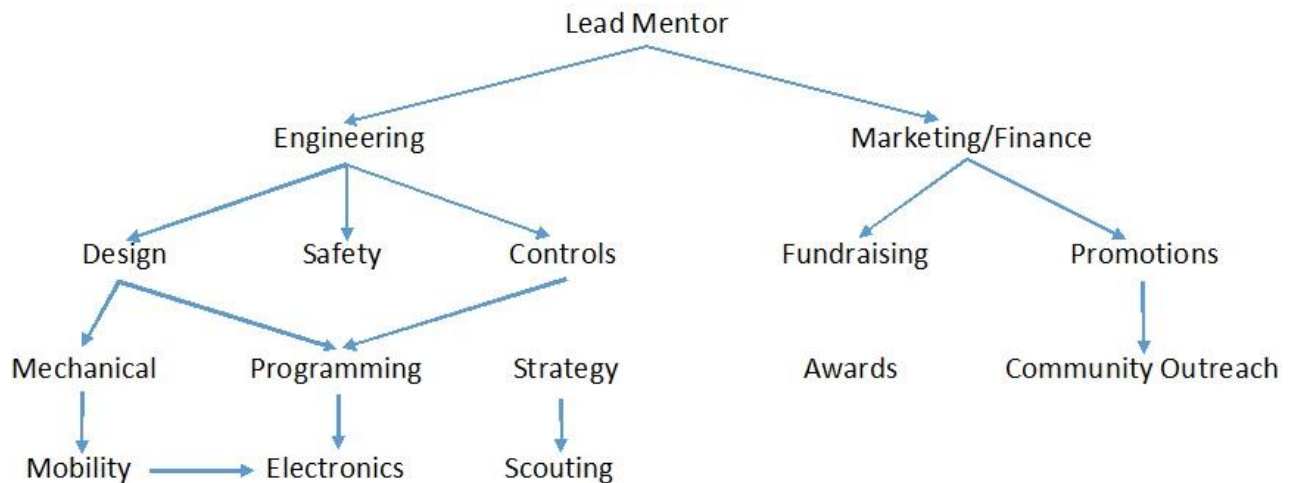


# INTERNATIONAL PAPER

Though some sponsors may change from year-to-year these sponsors can be found on our website, robots, team banners, team shirts and other marketing materials which are displayed at competitions, outreach events and other public appearances.

## 4. Team Leadership

At this time TEAM W.I.R.E. consists of students only from H.V. Jenkins High School. Adult team members include Savannah/Chatham County Public School System employee teachers along with local engineering partners and parents. In addition, some students upon high school graduation are welcome to volunteer their time as mentors if accepted. Students that show leadership qualities on the team will be appointed Captains by the Lead Mentor. Leadership and team organization is in the following order:



## 5. Team Membership Requirements

### a. Grades

To be part of the HVJ Robotics team, it is required to be passing all of your classes. Students will submit interim and nine week grade progress reports to verify grade status. Students should put their grades before any team needs.

### b. Fundraising

Fundraising is a requirement of all team members. These funds are needed to purchase competition registration, parts and materials, team shirts and travel expenses. In addition, students will have participation fee of \$100.00 (see Form section on websites). Depending on the amount of funds raised in that year, there may also be travel fees for those who attend the competitions. Our Robotic team is 100% Team Fundraising...! Help us do the very best job we can to represent our school, city / state, and our sponsors at the different events, including the VEX and FIRST Robotics Competitions! Every donation received is an investment for your future college and professional career.

### c. Meetings / Schedules

From August - December, the team meets every Tuesday (subject to change) after school at 2:35 until around 4:30 unless participating in fundraising, outreach or a competition those times will vary. There may be no set agenda for most meetings, just a time for the students to come in and learn the basics of building a robot. There will also be occasional training in specific areas of CAD, Mechanical, Electrical, Pneumatics and Programming along with training on using the tools and machines in the fabrication lab. Starting in January after the FRC Kick-Off until April, the team will meet daily after school from 2:35 until ??, Saturdays and days off of school from 8:00 am until around 4pm. This is the Build Season and we only have six weeks to design, prototype, build, test our robot. It is essential that you are here during the build season.

### d. Student Involvement

Team members are expected to attend regular weekly meetings, any training sessions, safety meetings, outreach events, etc. Participation and Preparation is key in the success of our team. Team members must have a minimum of 25 hours (during off season), 75 hours (during build season) of participation and complete at least two outreach and/or fundraising events in order to be eligible to travel to competitions.

- e. FIRST STIM Students Registration; To facilitate the submission of a team roster at FIRST events, After the first week of September, Students must register online as a team member of FRC Team #4701 and complete the electronic version of the FIRST Consent and Release form. You will find more information about signup process here; <https://my.firstinspires.org/AccountManager/Account/Register>

Parents will receive a confirmation e-mail to complete the FIRST Consent and Release form electronic signature process.

- f. Parent Involvement

Parents are encouraged to help out in any way they can to assist the team. The efforts of these volunteers must be student-focused and within the spirit of FIRST. If you would like to volunteer your first step is to go to:

<http://new.sccpss.com/page52.html> and register through SCCPSS's Operation Beacon Volunteer Program.

You must also go to:

<https://my.firstinspires.org/AccountManager/Account/Register> and sign the Consent and Release Form for FIRST under the STIMS section for your child.

- g. Mentors / Adults

Adults volunteer their time to act as coaches, mentors and non-engineering mentors by working with the students after work hours and on weekends. If an adult would like to volunteer the first step is to go to;

<http://new.sccpss.com/page52.html> and register through SCCPSS's Operation Beacon Volunteer Program.

You must also go to;

<https://my.firstinspires.org/AccountManager/Account/Register> and register under FIRST as a Mentor.

- h. Forms

All forms will be located on the team websites. Students are required to go to the websites, print and fill in the forms and turn those forms in prior to the deadlines associated with each form.

## 6. Contacts Information

Website: [www.hvrobotics.weebly.com](http://www.hvrobotics.weebly.com)

Schoology: <https://app.schoology.com>

Access code: QFSK2-W85KH

Email address: thomas.maty@sccpcc.com

Facebook page: <https://www.facebook.com/hvrobotics/>

Remind:

On your Smartphone phone, open your web browser and go to the following link:

[rmd.at/mrtmaty](http://rmd.at/mrtmaty)

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.

Or if you don't have an Smartphone;

Text the message @mrtmaty to the number 81010.

School Address;

H.V. Jenkins High School

1800 East DeRenne Ave.

Savannah, GA. 31406

912-395-6300

## TEAM W.I.R.E. Code of Conduct

By signing below, I acknowledge and agree to all of the following rules and conditions:

1. I have read the TEAM W.I.R.E. Robotics Team Handbook.
2. I understand that there is a \$100 participation/activity fee to be a member of TEAM W.I.R.E.
3. I understand that I may be absent from school (excused absences) during travel to the Districts / Regional and Championship competitions. I am responsible for all make-up work while absent and will stay focused on my schoolwork.
4. I understand as a member of TEAM W.I.R.E., I must have a minimum of 25 hours (during off season), 75 hours (during build season) of participation and complete two outreach and/or fundraising, workshops, meeting events in order to be eligible to travel to competitions. I also understand I must regularly attend workshops and meetings. In addition, I understand that my status will be reviewed by team leadership and I may be dismissed from the team for not meeting the above stated criteria.
5. I agree to review all safety training videos / procedures / Tools identification presentations and demonstrations provided for me prior to using any tools or machines.
6. I will read, sign and submit the TEAM W.I.R.E./HVJ Safety Lab Contract prior to using any tools or machines.
11. I agree to safely use all tools and equipment while working on any project. I respect the severity of a possible accident and agree that I may be dismissed from the team if I don't work safely.
12. I understand that when working in the lab (and at competitions) closed toe shoes and safety glasses (OSHA Z-87.2) are mandatory for everyone.
13. I agree to clean up after myself while working in the lab.
14. I will maintain an acceptable level of productivity while at all team activities.
15. I WILL ABIDE BY THE SAVANNAH/CHATHAM COUNTY BOARD OF EDUCATION'S STUDENT CODE OF CONDUCT AND WILL BE RESPECTFUL TO MY TEACHERS, MENTORS AND TEAMMATES.
16. I will practice Gracious Professionalism.
17. If I violate any of the above rules, I understand that I may be dismissed from the team.

Printed name of student \_\_\_\_\_

School & Grade \_\_\_\_\_

Student's signature \_\_\_\_\_

Parent's Signature \_\_\_\_\_ Date \_\_\_\_\_