FRC (FIRST Robotics Competition)

Team 7034: 2B Determined

Student Team Handbook

Latest Revision: 2024-09-24

About the handbook

This handbook contains general information as well as administrative and logistical procedures for FRC Team 7034: 2B Determined. The student leadership team and mentors update this handbook yearly to ensure that it represents the team's operations, purpose, and standards.

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1. ABOUT FIRST and FRC

1.1 What is FIRST?

FIRST (For Inspiration and Recognition of Science and Technology) is a non-profit founded in 1989 intended to inspire students to pursue further learning in STEM (science, technology, engineering, and math) fields. FIRST programs promote group collaboration and competitive integrity among a variety of age groups.
FIRST Website: https://www.firstinspires.org/about/vision-and-mission

1.2 FIRST Mission

The mission of FIRST is to inspire future science and technology leaders and innovators by engaging them in exciting mentor-based programs that build problem solving skills, inspire innovation, and foster well-rounded life capabilities including self-confidence, communication, and leadership.

1.3 Gracious Professionalism

As part of its mission to encourage student leadership and collaboration through annual robotics challenges, FIRST promotes Gracious Professionalism as one of its core values in all levels of competition. Their website describes this ideal as follows: “With Gracious Professionalism, fierce competition and mutual gain are not separate notions. Gracious professionals learn and compete like crazy, but treat one another with respect and kindness in the process. They avoid treating anyone like losers. No chest thumping tough talk, but no sticky-sweet platitudes either. Knowledge, competition, and empathy are comfortably blended.”

1.4 Coopertition®

FIRST extends their philosophy through their value of Coopertition®, which “produces innovation. At FIRST, Coopertition is displaying unqualified kindness and respect in the face of fierce competition. Coopertition is founded on the concept and a philosophy that teams can and should help and cooperate with each other even as they compete. Coopertition involves learning from teammates. It is teaching teammates. It is learning from Mentors. And it is managing and being managed. Coopertition means competing always, but assisting and enabling others when you can.”

1.5 What is FRC?

FRC (FIRST Robotics Competition) is FIRST’s oldest robotics program. It is designed to provide a rigorous engineering challenge to high school students as well as to teach leadership, collaboration, and project management. Over eight thousand teams from around the world have competed since the inception of the program. Each year, every FRC team begins their build season when the game is released on the first Saturday in January, followed by approximately six weeks to design, build and program a competition worthy robot. The team will compete in several competitions which contribute to rankings. High ranking teams in the Pacific Northwest then compete for a chance to advance to the World Championships in Houston.

1.6 Benefits of FRC

- Learn STEM skills through participation in FRC.
- Learn Business skills through first hand experience running the FRC team.

- FIRST partners offer over $80 million in annual scholarships.
- Develops skills for communication, teamwork, and problem-solving
- Allows students to specialize in areas of interest (mechanical, electrical, software, CAD, business and marketing, etc).
- 0.5 elective credits each semester.
- Credits count towards earning the status of Career and Technical Education completer.
- Looks great on college applications.
- Access to cool toys, drones, virtual reality, and more!
- Amazing learning opportunity for those interested in engineering, business, and/or marketing.
- Closest thing to real world engineering and small business experience at a high school level.

2. ABOUT 7034: 2B Determined

2.1 Who is 7034?

Team 7034 is an FRC team established at West Linn High School in 2017 to promote STEM learning and provide a tailored program to give students career experience in a safe and welcoming environment. In addition to the robotics competition, the team competes in as many local events as possible and participates in a variety of projects year-round from our home base at West Linn High School. The team was founded in September of 2017, spearheaded by a small number of students from FIRST Tech Challenge teams who demanded a more exciting and challenging robotics program. Since its inception, Team 7034 has strived to be more than just a competitive FRC team and has grown to be an advocate for STEM and robotics awareness both at the high school and in the community. Additionally, the team strives to make robotics accessible for students of all ages and capabilities.

2.2 Team 7034 History and Accomplishments

- *2017 - 2018 Rookie Season*
  Awards:
  Highest Rookie Seed – Wilsonville District Event
  Rookie All-Star – Lake Oswego District Event
  Highest Rookie Seed – Lake Oswego District Event
  Rookie All-Star – Pacific Northwest Regional Event
  Rookie Inspiration – World Championships - Hopper Division

- *2018 - 2019 Second Season Awards*
  Judges Award – Wilsonville District Event
  Safety Award – Wilsonville District Event

- *2019 – 2020 Third Season*
  Grand Marshall - West Linn Old Time Fair (canceled due to COVID-19)

- *2020 - 2021 Fourth Season*
  Chairman's Award -- District Competition
  Chairman's Award -- Pacific Northwest Regional Competition
  (Season cut short due to COVID pandemic - awards events were virtual.)

- *2021 - 2022 Fifth Season*
  Finalist - World Championships - Newton Division
  Engineering Inspiration Award - Oregon State Fairgrounds District Event
  Grand Marshall - West Linn Old Time Fair
  BunnyBots Winner - Portland Pre-season Competition
  Innovation in Control Award - Clackamas Academy District Event
  Winner - Clackamas Academy District Event
  Winner - Oregon State Fairgrounds District Event
  Dean's List Finalist (Maxfield D) - Pacific Northwest Regional Competition

Alliance Captain - Chezy Champs

- *2022 - 2023 Sixth Season*
  Girls Generation Winner - Portland Pre-season Competition
  BunnyBots Semifinalists - Portland Pre-season Competition
  Team Sustainability Award - Clackamas Academy District Event
  Impact Award - Oregon State Fairgrounds District Event

- *2023 - 2024 Seventh Season*
  Girls Generation Finalist - Portland Pre-season Competition
  BunnyBots Winner - Portland Pre-season Competition
  Judges' Award - Clackamas Academy District Event
  Dean's List Semi-Finalist (Olin D) - Wilsonville

2.3 Team 7034 Mission

We are determined to inspire students in science, engineering, and technology while developing individual skills and character. We strive to make a positive impact on each other and our community by being role models, engaging every student, and challenging ourselves and others through collaborative learning and problem solving.

2.4 Team 7034 Vision

2B Determined strives to empower students to gain self-confidence and become leaders, collaborators, critical thinkers and problem solvers while fostering a culture of STEM education in our community.

2.5 Team 7034 Motto

"We are Determined"

2.6 Team 7034 Goals

Promote STEM education at a high school level, creating a strong sustainable program, with the ultimate goal of competing in the FIRST Championship.

2.6.1 2B Educators

The main focus of the team is to provide an educational platform that is not found in the traditional classroom. Team members have the opportunity to work hands-on alongside industry mentors. Students are encouraged to challenge themselves and others at all times. Team 7034 also provides opportunities for team members to be educators when sharing and teaching their skills to primary, middle, and high school students as well as the community.

2.6.2 2B Inspirational

Another key aspect of the team is to inspire all youth to consider pursuing a career in a STEM field. Our team is a cornerstone of all STEM and engineering CTE (career and technical education) within West Linn High School. With a growing outreach program, the team works towards creating a strong presence for both the team and STEM.

2.6.3 2B Impactful

In addition to strong growth in individual students' skills and character, team members are encouraged to make an impact on others within our community. Students have the resources and ability to take initiative and make great change while also developing leadership skills.

3. Student Commitment

3.1 Student Eligibility Requirements

- Students are expected to attend all scheduled FRC class meetings.

- Students will volunteer at least 12 hours for team outreach events over the course of the school year.

- Students are expected to volunteer to help with one team hosted camp

- Students must attend 4 solve events over the course of a year

- Students will attend all local team competitions. As the FRC Competition progresses, there may be regional and world competitions to attend as appropriate and able.

- Students are required to be respectful, responsible and reliable as they communicate effectively, build a positive, safe environment and uphold a clean workspace.

- Students and their legal guardians must fill out all forms and pay all fees required by Team 7034, West Linn High School and FIRST. Need-based scholarships are available.

- Violation of any of these conditions could result in forfeit of class credit and removal from the team.

4. Team Organization

4.1 Mentors

One of the most important aspects of the FRC program is the partnership between students and mentors. This collaboration provides students educational support and inspiration. The team is always welcoming new mentors. All mentors must go through a team evaluation process, a background check and fingerprinting through the WLWV school district protocol. Here are typical characteristics and responsibilities.

4.1.1 Head Mentor Tim Manes

- Oversee the Robotics Team "Business" to include the WLHS Class & Club
- Oversee Mentor Selection and Involvement
- Formalize team roster
- Manage selection and positions of team members
- Ensure lab and student safety

- Provide grade and credit for the class

4.1.2 Team Manager

- Organize team travel and meals
- Ensure national registration of students and team
- Oversee general communication with team and parents
- Oversee team finances and budgeting
- Manage positions of team members
- Liaison with FRC Organization
- Oversee parent volunteers

4.1.3 Business, Marketing and Outreach Mentors

- Oversee media outreach and publications
- Assist with sponsor and grant proposals
- Provide professional guidance and training to students
- Have experience in a field related to business or marketing

4.1.4 Technical Mentors

- Encourage and demonstrate safe practices
- Possess extensive knowledge of tools and machines
- Help maintain a proper work environment
- Be properly trained on every machine in the lab
- Be practiced and safe with machinery
- Provide professional guidance and training to students
- Typically have experience in a field related to mechanical/electrical/software engineering and/or building/manufacturing/machining trades.

4.2 Sub Teams

All team members will have primary responsibilities within a single sub team. There are a variety of opportunities to contribute to the chosen sub team and the overall success of the team. Over the course of the season, students may have the opportunity to work with other sub teams for specific competitions or events.

4.2.1 Business/Marketing/Outreach (MOB)

The business, marketing, and outreach sub teams are together responsible for maintaining the inner workings of the team. They must ensure the team is properly communicating and has the resources to do so. The sub team records all income and expenses, builds and sustains partnerships with current sponsors, parents and volunteers to ensure all registrations and forms are properly completed. This sub team improves and maintains the team branding and identity, promotes events and organizes outreach opportunities. In addition, they are responsible for all team publications and updating social media.

Specific positions could include: photographer, videographer, video editor, written editor, web designer, graphic designer, social media manager, community service manager, unified robotics members, summer camp coordinators, and day camp coordinators. Members may fulfill multiple roles.

4.2.2 Hardware: Mechanical/Electrical/Design

Under leadership of the System Integration Lead, the hardware sub teams are responsible for the physical aspects of the robot design, prototyping, building and wiring. This includes CAD models and drawings of the robot, as well as CAD assisted analysis. They must also model parts to be produced by machines for the robot, create prototypes to show proof of concept and/or feasibility, and manufacture and assemble parts. This sub team also creates wiring harnesses and connects all circuitry for the robot. They are expected to properly assemble, diagnose and fix all systems within the robot using tools for which they have been trained. The hardware team is also responsible for the organization of tools, parts and batteries in the lab and at competition.

4.2.3 Software

The software sub team is responsible for writing all code for the robot. This includes software robot control and monitoring systems, as well as any other gadgets used in the lab. Software works directly with the MOB sub team to build and maintain the team website.

4.2.4 Lab Resources

The Lab Resources sub team is required to maintain both the workshop and the competition pit areas. They must build/design the pit, robot cart and field elements. The sub team is also tasked with making sure proper safety protocols are upheld and tools are in good condition. This subteam is also responsible for operation and upkeep of all machine tools within the lab, and the training/assistance of students on the use of machine tools.

4.2.5 Strategy/Scouting

The strategy sub team is responsible for managing systems that enable the team to gain competitive team information to be used in competition. For example, the sub team will work to identify compatible teams that would make good Alliance Partners and build relationships with those teams accordingly.

4.2.6 Safety

The safety sub team is responsible for managing the team's safety systems. These are further described in the Safety Section of this handbook.

4.3 Student Leadership

Team 7034 prides itself on being a student led organization. Student leads are a critical aspect of the organization for both the leadership training, student inspiration and the overall success of the team. All student leads are recognized as individuals who can make a larger commitment and provide good examples for other team members.

4.3.0 Leadership Selection Process

The Student Leadership Team consists of a system integration lead, and leads for each sub team. During the school year the Student Leadership Team will meet at a mutually agreeable time and frequency (typically weekly). The lead meeting is used to coordinate upcoming events, make plans for the next few weeks' meetings and activities, and address any issues or improvements for the team. Any student leadership position (with the exception of the overall lead and system integration lead) may be split between two people to reduce the workload, or

for teaching purposes. All student leaders must be team members who will be in 10th–12th grade and have been a team member in the previous year. If no such person is suitable for the position, it will be managed on a case-by-case basis. The Head Mentor oversees the selection process and reserves the right to remove any student from a leadership position for any reason. Students who are interested in leadership opportunities can apply for these positions by completing the Student Leadership Application. Attendance and team service requirements for Leads. The “scheduled” class meeting times do not apply to leads.

An annual retreat for the outgoing and incoming leadership teams will be held annually in May to provide training and facilitate a seamless transition for the upcoming year.

4.3.1 Overall Team Lead

- Works closely with the head mentor and leadership team
- Chair of the Leadership Team
- Ensure team calendar, activities, and planing is accurate
- Works with the System Integration and MOB Lead to develop master schedules for the year
- Be aware of all projects and their progress

4.3.2 System Integration Lead Lauren Gault

- Project Manager for robot design, build and competition
- Works with sub team leads to establish project timeline
- Communicates effectively with mentors
- During competitions, represents the team

4.3.3 Safety Lead Veraina Langley

- Be a role model for safe practices
- Remind other students of proper, safe procedures
- Administer training and clearance tests
- Know proper protocols in case of an emergency
- Update the safety manual regularly
- Maintain safe operations in the pit at competitions,
- Organize pit safety materials

4.3.4 Business Lead Louis Cekay

- Organize team communications, emails
- Oversee finances
- Maintain relationships with current sponsors and community partners
- Write grants
- Work with all leads to communicate financial needs and budgets
- Delegate and assist with sub team tasks

4.3.5 Marketing Lead Ruby Deng

- Manage team image and identity
- Approve team publications

- Design and maintain website
- Manage social media presence
- Delegate and assist with sub team tasks

4.3.6 Outreach Lead — Emma Huberty

- Coordinate school events
- Coordinates team participation in community events outside of school
- Organize camps and communication with other programs
- Delegate and assist with sub team tasks

4.3.7 Mechanical Leads — Duncan Duffield/Caleb Rubow

- Supervise robot construction
- Be familiar with drive base and manipulators
- Monitor robot size and weight
- Collaborate with Design to oversee prototyping
  - Lead mechanical training sessions
- Delegate and assist with sub team tasks

4.3.8 Electrical Lead

- Supervise mounting and wiring of robot electronics
- Possess knowledge of sensors and controllers
- Delegate and assist with sub team tasks

4.3.9 Design Lead — Ronin Coxwell

- Have experience with 3D modeling software
- Assess feasibility of design options
- Produce presentation models and images of the robot
- Collaborate with Mechanical to oversee prototyping
- Delegate and assist with sub team tasks

4.3.10 Software Lead — Aaryan Ilanchelian

- Be knowledgeable in relevant programming languages
- Keep all software and software licenses current
- Delegate and assist with sub team tasks
- Oversee related software projects

4.3.11 Strategy/Scouting Lead — Alivia Marshall

- Facilitates game strategy
- Organizes scouting at events
- Determines alliance selections
- Delegate and assist with sub team tasks
- Trains all scouting roles
- Oversee bumper creation

4.3.12 Lab Resources Lead — Olin Dawson

- Design workshop and pit
- Oversee pit construction and operation

- Select and organize the pit crew
- Oversee lab maintenance and stocking
- Oversee lab improvement/upkeep
- Key resource for lab equipment training and utilization
- Possess skills in CAD and CAM softwares
- Delegate and assist with sub team tasks

5. Student Expectations

While participating in FRC, individuals are students in a graded class for credit, members of a school club, and team members of FRC Team 7034: 2B Determined. Students who join the team have taken on a responsibility that requires strong commitment in order to maintain the highest academics possible. Students must also show the ability to represent the team in a positive manner at all times.

5.1 School Grades

Students are expected to balance their team responsibilities with their school work. Schoolwork should be considered a first priority, even before robotics. Students must have no grades below a 'C' for all progress reporting periods. If a student's grades are suffering due to robotics, an action plan will be created via collaboration with the student, their parents and lead mentor to ensure academic success. Robotics is intended to supplement school learning, not inhibit it.

5.2 Attendance Policy

Students are expected to attend all scheduled FRC class meetings and the meetings of their associated sub-teams during the school year. If it is required to change or add meeting times throughout the school year students are only required to attend the originally scheduled times, additional meeting times are voluntary. Students are expected to track their attendance tracking system. Parents are expected to notify the course instructor prior to any absences.

5.3 Being Present and Productive

It is required for students to be more than physically present at meetings. While Team 7034 prides itself on the social aspect of its community, students should come to meetings prepared to assist in a variety of ways. During any down time and between competition seasons, there are always ways that students can assist with projects around the lab and classroom. Ask a lead or mentor for ways that you can be helpful.

5.4 Code of Conduct

All team members should recognize that they represent Team 7034: 2B Determined at all times, even when not present with the team or at a team event. Students are expected to show Gracious Professionalism, Coopertition, and represent the team in the highest manner possible at all times. Good conduct is expected at team meetings, interactions with visitors and other students, competitions or team events, and in any online presence.

5.5 PDA Policy

Being overly affectionate during robotics creates an environment that is uncomfortable and distracts from the main goal of learning in a safe, and fun community. Therefore students should refrain from inappropriate, intimate behaviors during any robotics meetings, events & activities. Inappropriate public displays of affection will not be tolerated. This behavior may include kissing, romantic hugging, or tickling. Such behavior may result in a parent meeting and possible suspension from the team.

5.6 Dress Code

Seeing as robotics is a class, we ask that all members follow the school's dress code, as well as our additional protocol to ensure your safety while in the FRC lab. While working in the lab, it is required that long hair be contained, closed-toe shoes be worn, dangly jewelry be removed and no baggy clothing be worn (to include no long sleeves when working near moving machinery). Finally, safety glasses will be required (and provided) while anyone is working in the lab.

6. Team Travel Policy

The team will occasionally travel to district events and/or competitions outside the Portland area. A student travel expectation form will need to be signed by all students and a parent /guardian prior to travel. Oftentimes team members will attend local events that may require transportation other than a bus. The team will attempt to find parent volunteers to assist in driving to these events, but it may be that students will drive themselves or others. If you do not want your student driving another student or riding with student drivers, please discuss this with the head mentor or team manager. For all competitions, the team will travel together as a load-in team or on the team bus. Students are not allowed to drive themselves or others to these events.

6.1 All students in good standing on the team are invited to attend out of town events/competitions. Lodging, transportation expenses, and meals will be paid for by all traveling students. The total team cost will be divided equally between the students traveling. The team may utilize fundraising efforts to help defray the cost of these trips. Students will be assigned a room by the team manager and may not change rooms. Students will also be assigned a chaperone who must know where they are at all times.

6.2 Parents are invited to attend all travel events/competitions as chaperones. All chaperones are responsible for their own lodging, transportation and meal expenses. Rooms for parents and chaperones may be available in a team room block after all team rooms are assigned, but this is not guaranteed.

7. Parent Volunteering

We highly encourage parents to participate as parent volunteers. They are necessary for our team to run smoothly; parent volunteers help to organize trips, raise funds, and facilitate communications.

There are many ways for parents to get involved, including the following volunteer opportunities. Please contact the team manager for further information.

7.1 Snacks/Meals

Snacks are provided in the lab for students during team activities. During the build and competition season, team members may work through lunchtime, on weekends and, approaching competitions, may pull extended hours that require a dinner break. Volunteers are needed to help keep snacks stocked and provide meals when needed. We also need volunteers to help with meals during our travel events.

7.2 Chaperones

Chaperones are needed for various events both during the competition season and during outreach events. Chaperones are needed for all travel events.

7.3 Transportation

Parents are needed to help transport students to various outreach and competition events throughout the year. There is also an opportunity to assist with transporting supplies and equipment.

7.4 Event Volunteers

Volunteers are needed at outreach events, FIRST robotics competitions, and other FIRST events. Duties may include judging, hospitality, set up, and various other activities.

8. Meetings

8.1 Non-Build Season (October – December)

Tuesdays and Thursdays 6:00pm – 9:00 p.m.

Team Training, Outreach Events
Bunny Bots, Girls Generation Competitions and other friendly competitions.

8.2 Build Season (January – Mid April)

Monday through Thursday 6:00 pm – 9:00 p.m.
Saturdays at 9p.m. – 5 p.m.

8.3 Open Lab (June - Sept)

Tuesdays and Thursdays 6:00 – 9:00 p.m.

Team projects, training and lab improvement

9. Calendar of Major Events

9.1 FRC Build Season (Early January - Late February)

Immediately following kickoff every FRC team has approximately six weeks in which to build their robot. This is the time when the most commitment is expected, especially from members on hardware and software teams.

9.2 FRC Competition Season (Late February - Late April)

Over a six week period we will attend two District events and possibly the PNW District Championship. During the time not spent at competitions, Team 7034 will be preparing for future events, practicing robot driving, manufacturing spare parts, packing toolboxes, and scouting other teams.

9.3 FIRST Championship (Late April)

Depending on success during the competition season, we may be eligible for the FIRST Championship in Houston, TX.

9.4 FRC Off Season

Despite the end of the official FIRST calendar, Team 7034 continues to work for the entire year. Summers are spent recruiting and training new members, reaching out to the community to inspire and provide information, conducting camps for younger students and participating in local robotics competitions.

10. SAFETY

10.1 Safety Message

We pride ourselves on promoting safe practices. Students are encouraged to be cautious and are required to be trained using certain tools and machines.

10.2 Safety Protocols

- Safety glasses are required within proximity of any building or manufacturing at all times.
- Only one individual can be using a machine within the taped area.
- Students must be trained by a certified trainer with any machine.
- Closed toed shoes are required.
- Long hair must be tied back.
- No long and loose sleeves.
- Required tests are administered for different safety clearances.
- Every injury must be reported using Minor Injury Forms (MIF's).
- Major injuries must be reported to the Head Mentor and must by reported to the School District.
- All injuries are recorded and logged in the safety binder.

10.3 Safety Manual

The safety manual contains all safety practices and protocols for tools within the lab. In addition, the safety manual provides information on appropriate first aid procedures, including area hospital information near all competition locations. All team members are required to review the safety manual.

10.4 The Importance of Safety

Team 7034 puts the safety of our students first. It is important for students and parents to feel at ease when students are working with industrial machinery. Safety is recognized by FIRST and properly following procedures can result in awards for the team. By staying safe our team earns opportunities to work with powerful machines and provides students career experience at their school. Team members are encouraged to remind each other to stay safe and practice proper safety etiquette at all team meetings and competitions.

11. Funding

11.1 Sourcing

Team members identify and connect with sponsors to obtain monetary or material support. The team may also pursue grants and scholarships as well as explore other fundraising opportunities. We pride ourselves on having good relationships with our sponsors, as their donations allow us to keep running.

11.2 Sponsor Benefits

Gold Sponsor - $ 2500+
Social Media Shoutout
Large Logo on Banners and Shirts
Logo and Link and Company description (philanthropy) to Website
Large Logo on Robot
“We Support 2BD” posters
Company and We Support 2BD Plaques
Thank you Card

Silver Sponsor - $ 1500 - 2499
Medium Logo on Banners
Medium Logo on Robot
Medium titles on T Shirt
Logo and Link to Website in Silver Section
“We support 2BD” posters
Thank you Card

Bronze Sponsor - $ 500 - 1499
Small Title on T Shirts
Small Logo on Banners
“We support 2BD” posters
Thank you Card

Individual Sponsor - $ 0 - 499
Thank you Card
“We support 2BD” posters
Small Logo on Website and In Lab Banner

12. TEAM FORMALITIES

12.1 Required Forms

Some forms are required upon joining the team in order to protect the health and privacy of members. These forms include:

- Team Application
- Medical Release Form
- FIRST Registration (online)
- Travel Expectations Consent
- Photography Releases As Needed - such as LAM Research

12.2 Team 7034 Awards

Team 7034 issue awards at the end of each season to recognize dedicated and enthusiastic members. A history of award recipients is included in the Appendix.

Broken Joystick Award: The Broken Joystick Award is given to those that competed during competition. During Team 7034's Rookie Season, the robot joystick controller broke DURING a competition. Not to be discouraged, they used their fingers as a joystick and continued to compete successfully. This award recognizes the 'can-do' attitude that the team strives to always have.

Innovation Award: The Innovation Award is given to a student who invented a creative, original solution to a problem, regardless of whether or not it was used for a final product.

Inspiration Award: The Inspiration Award is given to a student who challenges and assists others in the lab. They improve the work quality of everyone around them and never fail to welcome new members.

Commitment Award: The Commitment Award is given to a student who accepts any responsibilities, seeks opportunities, and steps up to whatever miscellaneous tasks the team may have.

Judges' Award: The Judges' Award, similar to FIRST's own Judges' Award, is given to a student deemed fit for recognition, but who may not fit into any other awards.

Determination Award: The Determination Award is reserved for a student not in the leadership team. It is intended to recognize a student who willingly took on challenges and found the perseverance and determination to overcome them. The physical award itself embodies determination - a corner of a cube balancing on top of a slanted plate.

Rookie Award: This award is reserved for a first year student who has shown initiative, growth and passion for the team.

13. ADDITIONAL RESOURCES

Team resources
Email: wlhsfrc@gmail.com
Website: wlhsfrc.com
Twitter: @team_7034
Instagram: @team_7034
Facebook: ToBeDetermined
TikTok: team_7034
Youtube: Team 7034 - To Be Determined

FIRST Resources
FIRST website: https://www.firstinspires.org/
Unofficial forum: https://www.chiefdelphi.com/forums/portal.php
Archives: https://www.thebluealliance.com/

APPENDIX

Team 7034 Annual Award Recipients

- 2017 - 2018 Rookie Season

  Broken Joystick () - Aaron Markstaller, Parker Carlson, Adam Steinhilber, Kiger Rhoades, Kai Saito, Casey Culbertson
  Innovation Award
  Inspiration Award
  Commitment Award
  Judge's Award

- 2018 - 2019 Second Season

  Broken Joystick () - Alyssa Hargis, Parker Carlson, Adam Steinhilber, Maddie Mathews, Kai Saito
  Innovation Award - Maddie Mathews
  Inspiration Award -
  Commitment Award - Kate Sousley
  Judge's Award -

- 2019 – 2020 Third Season

  Broken Joystick Award - Kate Sousley and Maddie Mathews
  (Due to COVID-19, there was no competition; Kate and Maddie helped 'drive' the team's replacement activities - staying connected, making PPE, etc.)
  Innovation Award - Casey Culbertson
  Inspiration Award - Brandon Wied
  Commitment Award - Maxfield Dodge
  Judge's Award - Beth Landsem, Thomas Uelman

- 2020 – 2021 Fourth Season

  Broken Joystick Award - Amanda Hioe, Anna Olson, Beth Landsem, Kate Sousley, Leah Culbertson, Madeleine Mathews
  Innovation Award - Maxfield Dodge
  Inspiration Award - Brandon Wied
  Commitment Award - Kyle Jensen
  Judge's Award - Jakob Conner, Hope Bowcutt
  Determination Award - Fuchsia Whelan

- 2021 - 2022 Fifth Season

Broken Joystick Award - Jason Chitwood, Maddie Mathews, Sam Felsted, Sarah Talbert, Thomas Uelmen, Max Dodge
Innovation Award - Sam Felsted
Inspiration Award - Hope Bowcutt
Commitment Award - Maddie Mathews
Judge's Award - Anna Olson, Sarah Talbert
Rookie Award - Claire Sousley
Determination Award - Jason Chitwood

- 2022 - 2023 Sixth Season
  Broken Joystick Award - Max Dodge, Sam Felsted, Thomas Uelman, Lauren Gault, Claire Sousley
  Innovation Award - Ethan MckKelley
  Inspiration Award - Maxfield Dodge
  Commitment Award - Ronin Coxwell
  Judge's Award - Emma Huberty/Thomas Uelmen
  Rookie Award - Callen Molander
  Determination Award - Hannah Compton

- 2023 - 2024 Seventh Season
  Broken Joystick Award - Claire Sousley, Lauren Gault, Blakeley Nicholson, Ruby Deng, Alyssa Chang
  Innovation Award - Duncan Duffield
  Inspiration Award - Inspiration Award
  Commitment Award - Louis Cekay
  Judge's Award - Jonathan Wilson
  Rookie Award - Athena Hall
  Determination Award - Porter Sessions