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ROBOTICS INFORMATION SESSION

YOUNG EXPLORERS ROBOTICS CLUB

AGENDA

- ABOUT US
- ABOUT FIRST AND THE FIRST LEGO LEAGUE
- HOW TO GET STARTED
- BENEFITS AND EXPECTATIONS
- TIMELINE
- MEMBERSHIP AND FINANCE

WHAT IS YOUNG EXPLORERS ROBOTICS CLUB

- YOUNG EXPLORERS IS A REGISTERED NONPROFIT 501C(3) ORGANIZATION IN THE STATE OF WASHINGTON
- CLUB COMPETING FOR THE PAST 6 YEARS
 - YEARS OF COACHING EXPERIENCE
 - ADVANCED TO STATE AND SEMIS 3 YEARS IN A ROW

ABOUT ME (THIRU)

- CLUB FOUNDER AND PRESIDENT
- INTERLAKE JUNIOR
- PARTICIPATED AT ROBOTICS COMPETITIONS FOR 8 YEARS
- TOP RANK IN REGIONALS AND WENT TO WORLDS
- COACHED A TEAM IN BOTSWANA
- COACHED 3 SUCCESSFUL ROBOTICS TEAMS PREVIOUSLY

- ROBOTICS CLUB LEADERSHIP TEAM:
 - SAMIR SHAH
 - MAYUR SANTANI
 - MAHA RAMASAMY



WHAT IS FIRST

FIRST is a non profit organization, organizing 4 different levels of robotics competitions worldwide.

My experience: I love FIRST because it helps me explore STEM and learn important life skills

Competed in FLL for 4 years and am currently competing in FTC for my 4th year

Learned more about teamwork and other skills while also learning about coding and designing and building robots



Each year, each level of competition will receive a new challenge. Teams will work towards completing the challenge and attempting to achieve the most points possible

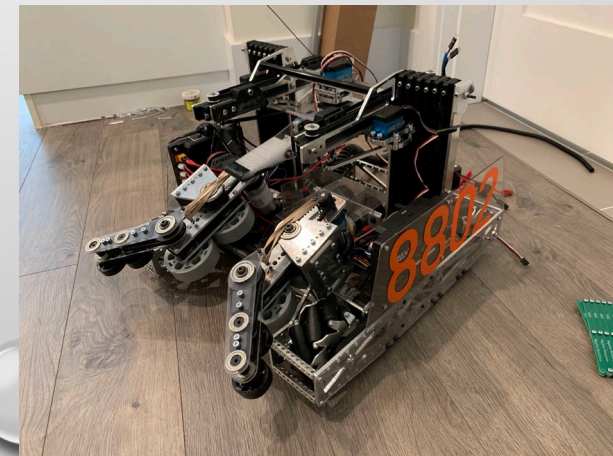
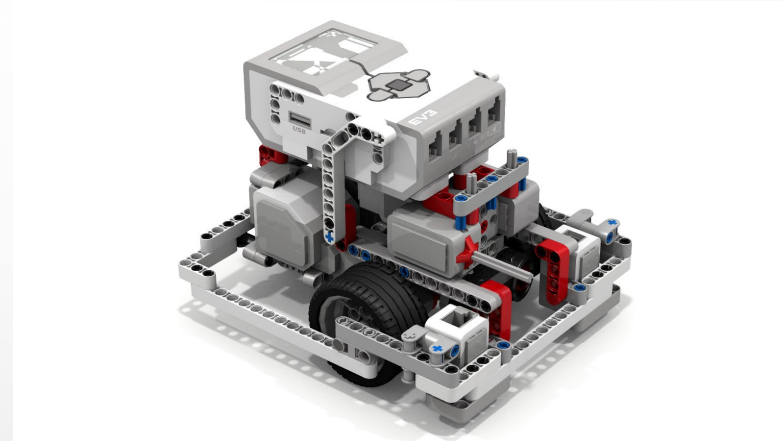
WHY ROBOTICS

- ROBOTICS IS HANDS ON ACTIVITY, PROMOTES LEARNING:
 - MECHANICAL DESIGN
 - PROGRAMMING
 - CREATIVE PROBLEM SOLVING
 - TEAM WORK
 - CORE VALUES
 - PRESENTATION SKILLS

MOST IMPORTANTLY IT IS FUN!

PROGRAMS OFFERED

- GRADE 3-8 (FIRST LEGO LEAGUE)
 - USE EV3 AND SPIKE PRIME
 - LEGO BASED ROBOTS
 - BLOCK BASED PROGRAMMING
- GRADE 8+ (FIRST TECH CHALLENGE):
 - ADVANCED ROBOTICS KITS SUCH AS REV AND ACTOBOTICS



FIRST LEGO LEAGUE

- CORE VALUES
 - BE A GOOD GLOBAL CITIZEN
 - BE A GOOD TEAM MEMBER
- PROJECT
 - RESEARCH
 - PROBLEM SOLVING
- ROBOT GAME
 - MECHANICAL DESIGN
 - CODING





HOW TO GET STARTED


- NEVER DONE ANY ROBOTICS?
 - GOOD TIME TO GET STARTED NOW
 - ENROLL IN ROBOTICS SUMMER CAMPS OR CLUBS
 - SELF-LEARN
 - FAMILIAR WITH ROBOTICS?
 - JOIN YOUNG EXPLORERS ROBOTICS CLUB TO COMPETE
 - WANT TO COACH?
 - JOIN YOUNG EXPLORERS ROBOTICS CLUB AND VOLUNTEER
- 

BENEFITS OF JOINING US

- COMPETITION REGISTRATION AND COACH GUIDANCE DURING SEASON
- YOU CAN HELP SUPPORT AND VOLUNTEER THE NON-PROFIT ORGANIZATION
- HOLD SCRIMMAGES WITH JUDGES
 - PRACTICE COMPETITIONS TO HELP PREPARE STUDENTS ABOUT HOW REAL COMPETITIONS WILL BE HELD
- LEARN FROM EXPERIENCED VOLUNTEERS



STUDENT EXPECTATIONS

- ATTEND ALL MEETINGS ON TIME (ALL 9 MONTHS)
 - COME ENERGETIC AND READY TO WORK
 - PARTICIPATE IN TEAM ACTIVITIES
 - WORK TOGETHER WITH YOUR TEAM
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PARENT EXPECTATIONS

- NO COACHING OR MENTORING
- ORGANIZE AND CHAPERONE FIELD TRIPS FOR OWN TEAM
- FUNDRAISERS AND OUTREACH EVENTS FOR OWN TEAM
- TEAM COORDINATOR (1 ADULT PER TEAM)
 - HELP COMMUNICATE WITH COACHES AND OTHER OFFICERS
 - HELP COORDINATE FIELD TRIPS
- SAFETY VOLUNTEER
 - REQUIRED FOR ALL MEETING
 - FOR YOUR OWN TEAMS

TIMELINE

- NOW – JULY, AUGUST: STUDENTS LEARN/REFRESH ROBOTICS SKILLS THROUGH CLASSES OR AT HOME
- JULY, AUGUST: STUDENTS COMPLETE CHALLENGES AS A PART OF INTERVIEW PROCESS TO MEASURE SKILL LEVEL
- JULY, AUGUST: STUDENTS GET ASSIGNED TEAMS AND START MEETING WITH THEIR RESPECTIVE TEAMS
- AUGUST – APRIL: STUDENTS WORK WITH TEAMS TO COMPETE IN THE COMPETITION SEASON

TEAM DISCRETIONARY BUDGET

- WHY?
 - TEAM IDENTITY (EX. T-SHIRTS, GIVEAWAYS, PINS...)
 - PROJECT MATERIALS (EX. TRIFOLD BOARD, OFFICE SUPPLIES)
 - PRINTING (EX. COLOR PRINTER, 3D PRINTING)
 - SNACKS
 - FIELD TRIPS
- HOW?
 - PARENT DONATIONS (YOUNG EXPLORERS IS A 501C REGISTERED NON-PROFIT ORGANIZATION)
 - TEAM FUNDRAISER EVENTS
 - COMPANY MATCHING FOR DONATION AND HOURS
 - MICROSOFT
 - BOEING
 - AND MANY OTHERS

MEMBERSHIP

- **MEMBERSHIP BENEFITS**
 - SMALLER GROUP SIZE (4-6 STUDENTS)
 - 36 WEEKS OF COACH GUIDANCE DURING MEETINGS
 - AUGUST – APRIL (36 WEEKS)
 - 4 HOURS IN PERSON & 1 HOUR ONLINE MEETINGS PER WEEK
 - ACCESS TO FIELD
 - 1 CORE KIT AND EXTENSION KIT PER TEAM
 - FIRST INSPIRES REGISTRATION FEES COVERED
 - FIRST WA COMPETITION FEES COVERED
 - ORGANIZED SCRIMMAGES
- **MEMBERSHIP DUES**
 - \$2950 PER MEMBER

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Q&A

RESOURCES

- [HTTPS://WWW.YOUTUBE.COM/WATCH?V=WLK7S7-KX70&FEATURE=YOUTU.BE](https://www.youtube.com/watch?v=WLK7S7-KX70&feature=youtu.be)
- [HTTPS://WWW.YOUTUBE.COM/WATCH?V=IPTYEGI7J1Y&FEATURE=YOUTU.BE](https://www.youtube.com/watch?v=IPTYEGI7J1Y&feature=youtu.be)
- [HTTPS://WWW.FIRSTINSPIRES.ORG/ROBOTICS/FLL/CORE-VALUES](https://www.firstinspires.org/robotics/fll/core-values)