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TEAM SPOTLIGHTS



TEAM 223 XTREME HEAT

GRACIOUS PROFESSIONALISM:

THE *FIRST* ETHOS OF *GRACIOUS PROFESSIONALISM* ENCOURAGES HIGH-QUALITY WORK, EMPHASIZES THE VALUE OF OTHERS, AND RESPECTS INDIVIDUALS AND THE COMMUNITY IN PURSUIT OF A MEANINGFUL LIFE.

“THINK OF *FIRST* AS A CATALYST IN A CHAIN REACTION. EACH COLLISION RELEASES HUMAN POTENTIAL WHICH FEEDS AN EXPONENTIAL EXPANSION OF ADDITIONAL HUMAN POTENTIAL. *FIRST* STUDENTS SEIZE THIS OPPORTUNITY BY BEING INFORMED, BEING CREATIVE, AND THINKING HARD – ALL THREE, ALL THE TIME.

– DR. WOODIE FLOWERS

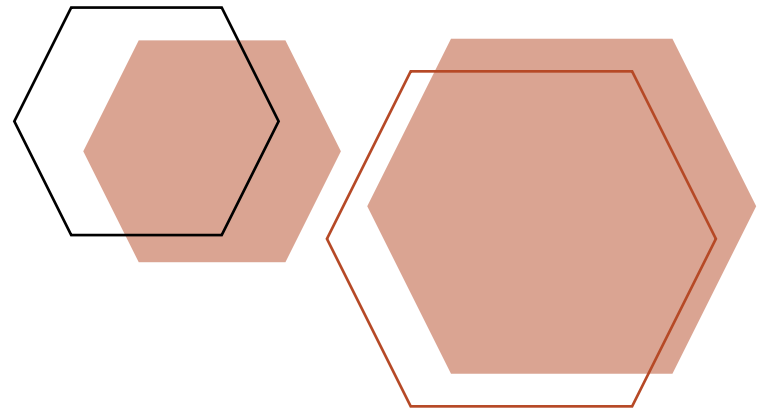
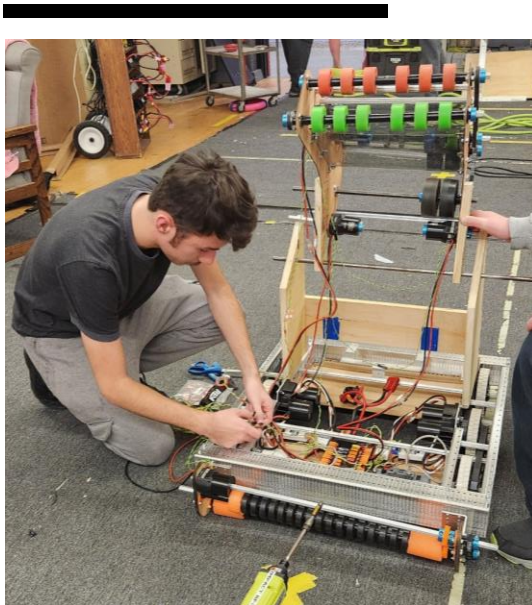
WEEK SYNOPSSES



WEEK 3

WE HAVE MADE A LOT OF PROGRESS THIS WEEK. ONE OF OUR MENTORS ASSISTED US IN BUILDING A SPEAKER TO PRACTICE SHOOTING INTO, AND WE ARE WORKING ON REFINING OUR SHOOTER PROTOTYPE TO HAVE THE BEST RESULTS POSSIBLE. WE'VE ALSO CREATED PROTOTYPES FOR OUR INTAKE AND ARE WORKING TO BUILD THE A-FRAME OF OUR ROBOT. THE BUSINESS DEPARTMENT HAS BEEN WORKING ON OUR WOODIE FLOWERS AWARD NOMINATION, ALONG WITH POSTING ON OUR SOCIAL MEDIA.

SPONSOR SPOTLIGHT: TORCON INDUSTRIES FOR BEING A GREAT SPONSOR AT OUR 2023 GOLF OUTING



WEEK 4

DURING WEEK 2, EVERYONE HAS BEEN HARD AT WORK. WE HAVE COME VERY CLOSE TO FINISHING OUR ROBOT. MOST OF THE A-FRAME IS DONE, OUR SHOOTER IS COMPLETE, AND WE HAVE BUILT ALL OF OUR GAME ELEMENTS. THIS INCLUDES THE SPEAKER, THE AMP, AND THE STAGE ELEMENTS IN THE GAME. WE ARE LOOKING FORWARD TO FINISHING THE ROBOT VERY SOON.



TEAM 223 CALENDAR OF EVENTS

MARCH 1-3 – FMA DISTRICT MOUNT OLIVE EVENT

MOUNT OLIVE HIGH SCHOOL

MARCH 15-17 – FMA DISTRICT MONTGOMERY EVENT

MONTGOMERY HIGH SCHOOL

APRIL 3-6 – FIRST MID-ATLANTIC DISTRICT CHAMPIONSHIP

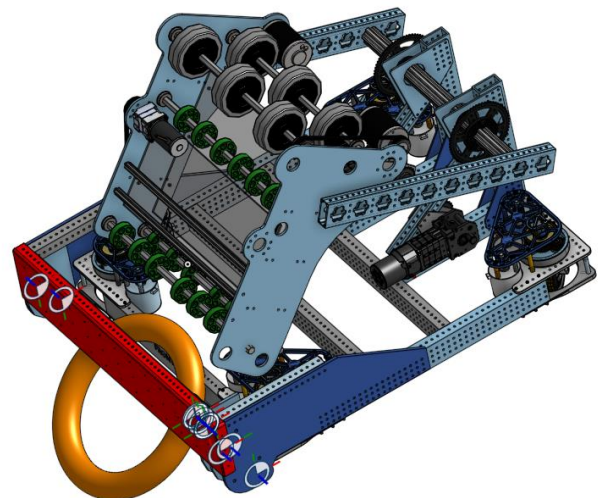
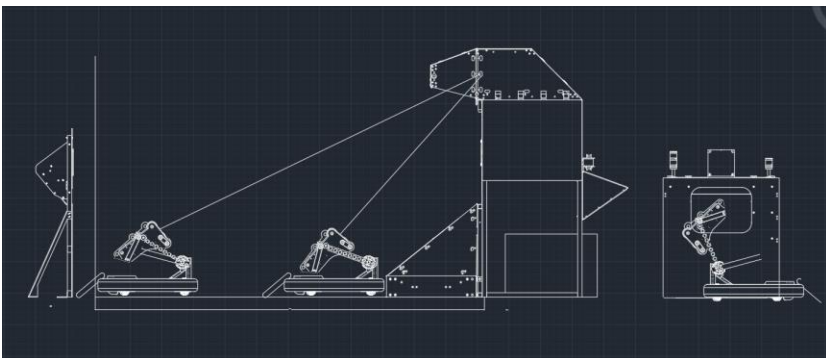
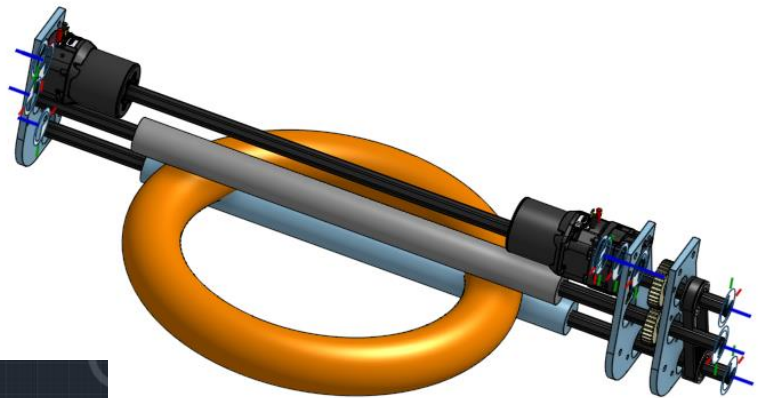
(UPON QUALIFICATION)

LEHIGH UNIVERSITY

APRIL 17-20 – FIRST CHAMPIONSHIP (UPON QUALIFICATION)

HOUSTON, TX, USA

CAD

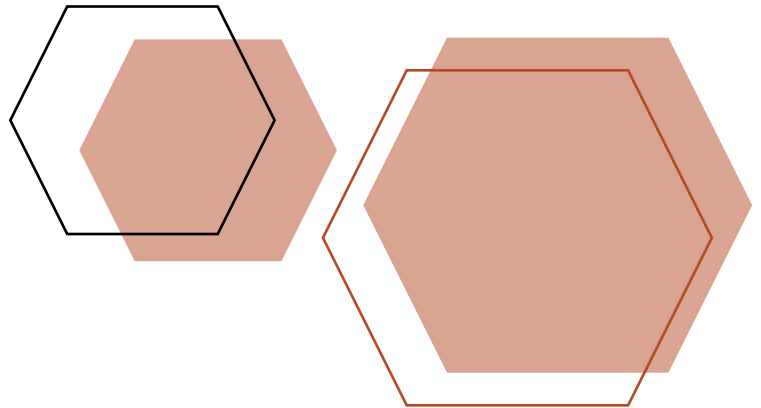




DEPARTMENTS UPDATED

DESIGN & BUILDING

- SUCCESSFULLY DESIGNED UNDERTAKE/INTAKE
- SHOOTER ASSEMBLY CONTINUED
- FIXED OUTSIDE FRAME
- MAKING PROGRESS TO COMPLETE ROBOT



BUSINESS

- WOODIE FLOWERS AWARD ESSAY
- WEBSITE DESIGN
- NEWSLETTER COMPOSITION

PROGRAMMING

- REDDOWNLOADED THE NI TOOLS ON PC AND REFLASHED SD CARDS
- FIXED CODE SO KITBOT DROVE PROPERLY
- WIRED SHOOTER ON KITBOT/CONNECTED
- FIXED SPARKFLEXES TO BE DETECTED BY CANBUS
- KITBOT SHOOTER IS UP AND RUNNING IN CODE, TESTED DIFFERENT ANGLES
- UPDATED ALL CODE TO WORK WITH 2024 LIBRARIES AND WITH PHOENIX 6 ON SWERVE; YET TO BE TESTED



PARENT UPDATES

WE WILL BE HAVING A PARENT'S MEETING ON **THURSDAY, FEBRUARY 22** BEFORE OUR COMPETITION SEASON. THE MEETING WILL START AT **6:30**.

WE ARE LOOKING FOR VOLUNTEERS TO FEED THE TEAM! IF INTERESTED PLEASE FEEL FREE TO SIGN UP.

PLEASE USE THIS [LINK](#)

ALONG WITH MEALS, WE CAN ALWAYS USE INDIVIDUALLY WRAPPED SNACKS (CHIPS, GRANOLA BARS, COOKIES, CRACKERS) AND DRINKS (WATER, SODA) FOR THEIR AFTERNOON SESSIONS.

ALL DONATIONS ARE GREATLY APPRECIATED BY THE TEAM! THIS WOULD NOT BE POSSIBLE WITHOUT ALL OF YOU.





MENTOR SPOTLIGHT

JIM COLAMARINO

MY NAME IS JIM. I DISCOVERED THE TEAM IN 2020 WHEN MY DAUGHTER LEXI STARTED HIGH SCHOOL AND JOINED XTREME HEAT 223. JOINING THE TEAM WAS A NO BRAINER FOR ME. CRITICAL THINKING, DESIGNING, AND BUILDING THINGS HAVE ALWAYS BEEN A PASSION OF MINE. I ALSO ENJOY SPENDING TIME WITH MY DAUGHTER, THIS WAS ANOTHER OPPORTUNITY TO DO SO. I HELP THE TEAM BY OFFERING GUIDANCE TO THE STUDENTS ON HOW TO SOLVE PROBLEMS THAT ARRIVE WHILE DESIGNING AND BUILDING. I ALSO GUIDE THEM ON HOW TO PROPERLY USE TOOLS. MY GOAL THIS SEASON IS TO PASS ON TO THE STUDENTS AS MUCH OF MY KNOWLEDGE AND SKILLS AS POSSIBLE AND TO HAVE A VERY SUCCESSFUL SEASON. ONE FUN FACT ABOUT ME IS I ENJOY RIDING MOTORCYCLES AND BOWLING WITH MY DAUGHTER.

Chickens do in fact float

STUDENT SPOTLIGHT

NOAH B

MY NAME IS NOAH, I AM A SENIOR AND I AM TEAM 223'S HEAD PROGRAMMER. I HAVE BEEN ON THE TEAM FOR 4 YEARS. I HEARD ABOUT 223 IN MIDDLE SCHOOL AS I WAS DOING ORIENTATION AND A TOUR OF THE HIGH SCHOOL. I LEARNED ABOUT IT FROM THE UPAL PROGRAM. THROUGH THE TEAM I HAVE LEARNED HOW TO COMMUNICATE WITH PEOPLE OF ALL DIFFERENT SKILL TYPES AND LEVELS, AS WELL AS HOW TO ASK FOR HELP WHEN I NEED IT. MY FAVORITE MEMORY WAS MY FIRST COMPETITION, WHICH WAS AN OFFSEASON EVENT DURING 2021. WE LOST AND OUR ROBOT BARELY FUNCTIONED, BUT I REMEMBER IT FONDLY BECAUSE THE TEAM CONTINUED TO WORK AND CONTINUED TRYING TO FIX THE ROBOT THROUGH ALL OF OUR STRUGGLES. SO FAR IN THIS SEASON I HAVE TAUGHT NEW PROGRAMMERS ALL OF THE WIRING AND PROGRAMMING FOR THE KIT BOT CHASSIS. THIS SEASON I WOULD LIKE TO GET A SWERVE DRIVE AUTONOMOUS THAT IS BOTH CONSISTENT AND ACCURATE. I LIKE THIS THAT THIS TEAM ALWAYS WORKS TOGETHER TO GET THINGS DONE AND WE APPROACH EACH PROBLEM HEAD ON DURING THE SEASON.

STUDENT SPOTLIGHT

DAN C

MY NAME IS DAN. I AM A SENIOR, AND I HELP WITH WIRING AND PROGRAMMING OUR ROBOTS, AS WELL AS DEVELOPING OUR COMPETITION SCOUTING SOFTWARE AND ALGORITHMS. I HAVE BEEN A PART OF THE TEAM FOR THREE YEARS, STARTING WITH MY SOPHOMORE YEAR. I WAS INTRODUCED TO THE TEAM BY MY FRIENDS DURING MY FRESHMAN YEAR, AND I FORMALLY DECIDED TO JOIN AS A PROGRAMMER MY SOPHOMORE YEAR. OVER THE PAST 3 YEARS, I'VE LEARNED HOW TO WIRE TOGETHER AN ENTIRE ROBOT FROM START TO FINISH, HOW TO EFFICIENTLY USE VARIOUS DEVELOPMENT TOOLS, AND HOW TO COMMUNICATE WITH MOTOR CONTROLLERS AND ENCODERS. SO FAR THIS SEASON I WIRED AND PROGRAMMED OUR PRACTICE KITBOT AND RESEARCHED NEW SCOUTING TECHNOLOGIES TO IMPROVE OUR SCOUTING SOFTWARE FOR THIS YEAR'S COMPETITIONS. MY GOAL THIS SEASON IS NOT ONLY TO HAVE AN INCREDIBLY FUNCTIONING ROBOT, BUT ALSO TO PASS ON MY SKILLS TO THE FUTURE PROGRAMMERS OF THE TEAM. PROGRAMMING IS AN INCREDIBLY IMPORTANT ASPECT OF DEVELOPING A FUNCTIONING ROBOT, AND WE ARE IN DESPERATE NEED OF THOSE WHO HAVE A PASSION FOR IT SO THAT ALL OF OUR KNOWLEDGE ISN'T LOST WHEN MY SENIOR CLASS EVENTUALLY GRADUATES. IF ALL GOES WELL THIS SEASON, HOUSTON IS RIGHT AT OUR DOORSTEP!



THANK YOU FOR SUPPORTING OUR TEAM!

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