

HAZMAT ROBOTICS

FEBRUARY 2024

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WHAT'S HAPPENING - FEBRUARY UPDATES

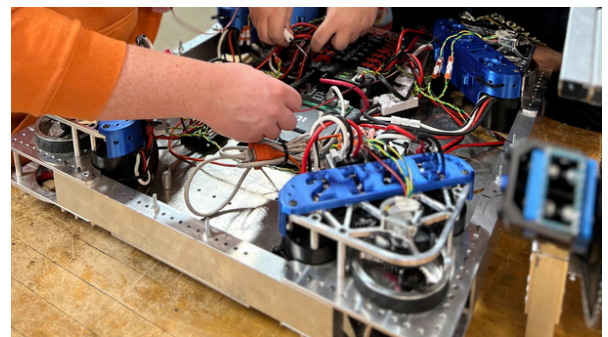
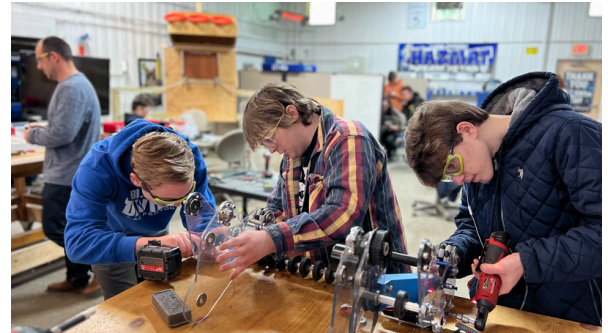
BUILD TEAM -
BUILD AND TEST SHOOTING
MECHANISM, BUILDING KIT BOT, AND
DEVELOPED NEW PIT BOXES WITH
BIG3

DESIGN TEAM -
CREATING CAD MODEL FOR INTAKE,
SHOOTING MECHANISM, PIVOT, AND
SUPPORTS

PROGRAMMING TEAM -
CODING TWO-JOINTED ARM, DRIVE
TRAIN PATHING, EXPERIMENTAL
PROGRAMMING WITH KIT BOT

ELECTRICAL TEAM -
WIRED ALL KRAKENS (MOTORS),
SAUTERED AND WIRED LIMIT
SWITCHES, EXTENDED WIRES, AND
WIRED INTAKE

BUSINESS TEAM -
WEBSITE UPDATES, FLAG DESIGN,
BUTTON MAKING, AND PLANNING



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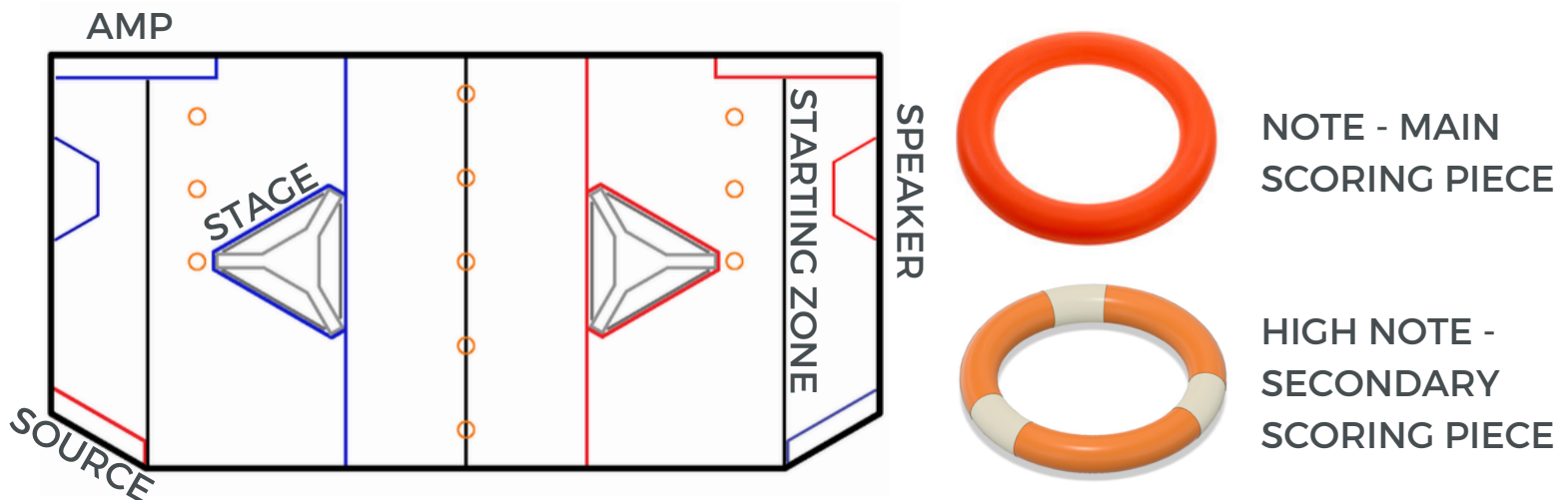
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CRESCENDO GAMEPLAY

THE GAME BEGINS WITH A 15 SECOND AUTON WHERE BOTS START IN THE STARTING ZONE AND SCORE EITHER IN THE AMP OR THE SPEAKER. THEY ARE ONLY ALLOWED ON THEIR SIDE AND CANNOT GO TO THE OPPONENTS SIDE.

AFTER THE 15 SECONDS ARE OVER, BOTS ARE FREE TO ROAM THE ENTIRE FIELD. THEY CONTINUOUSLY PLAY THE SPEAKER AND AMP IN THIS TIME. ONCE THE AMP GETS TWO NOTES, THE PLAYER CAN AMPLIFY THEIR SPEAKER AND SCORE MORE POINTS. THEY CAN ALSO ONLY SCORE ONE NOTE AND TRY FOR A COOPERTITION BONUS IF THE OPPONENTS ALSO AGREE TO IT.

AFTER THIS TIME IS UP, ENDGAME BEGINS. THE ROBOTS ON THE FIELD HAVE TO MOVE TO THE STAGE AND ATTEMPT TO HANG ON THE CHAINS THAT ARE AROUND THE STAGE. THEY CAN SCORE IN THE TRAP (A BOX IN THE STAGE) TO EARN 5 POINTS. HUMAN PLAYERS MAY ALSO THROW A HIGH NOTE ONTO A "MICROPHONE" ON THE TOP OF THE STAGE TO EARN MORE POINTS.



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SENIOR SPOTLIGHT: JACKSON

HE HAS BEEN ON THE TEAM TWO YEARS AND HE WAS THE ELECTRICAL CAPTION THIS PAST YEAR. AFTER HIGH SCHOOL HE IS GOING TO MICHIGAN TECH FOR ELECTRICAL ENGINEERING. SOME OF HIS FAVORITE MEMORIES OF ROBOTICS HAVE BEEN IN THE MIDDLE OF THE SEASON ON SLOWER NIGHTS WHEN HE HAS TIME TO WORK AND HAVE FUN WITH HIS FRIENDS. HIS ADVICE TO NEW MEMBERS WOULD BE "LEARN EVERYTHING YOU CAN, WATCH EVERY TEAM WORK, AND LEARN SOMETHING ABOUT EVERY TEAM WHILE THE EXPECTATIONS OF YOU ARE LOWER AND YOU HAVE TIME TO."

SENIOR SPOTLIGHT: LEIM

LEIM HAS BEEN ON THE TEAM ALL FOUR YEARS OF HIGH SCHOOL AND HAS BEEN SAFETY CAPTAIN AND BUILD CAPTAIN. HE PLANS TO GO STRAIGHT INTO THE WORK FORCE AFTER COLLEGE AND HAS ALREADY EARNED SEVERAL MECHANICS CERTIFICATIONS. HIS FIRST "REAL" COMPETITION HIS SOPHOMORE YEAR WAS HIS FAVORITE MEMORY. ONE THING HE WOULD TELL NEW RECRUITS IS TO "NOT BE SCARED TO GIVE ROBOTICS A TRY AND TO "JUMP" OFF THE PROVERBIAL CLIFF AND JUST TRY IT!"



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LAKE FENTON

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INSTAGRAM - @HAZMATSTEAM2145

TIKTOK - LAKEFENTONROBOTICS

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UPCOMING EVENTS

KETTERING DISTRICT EVENT (WEEK 1)
MARCH 1ST - 2ND

WEST MICHIGAN (GVSU) EVENT
(WEEK 4) - MARCH 22ND - 23RD

MICHIGAN (SVSU) CHAMPIONSHIP (IF QUALIFIED) - APRIL 4TH - 6TH

WORLD CHAMPIONSHIP HOUSTON
(IF QUALIFIED) - APRIL 17TH - 20TH