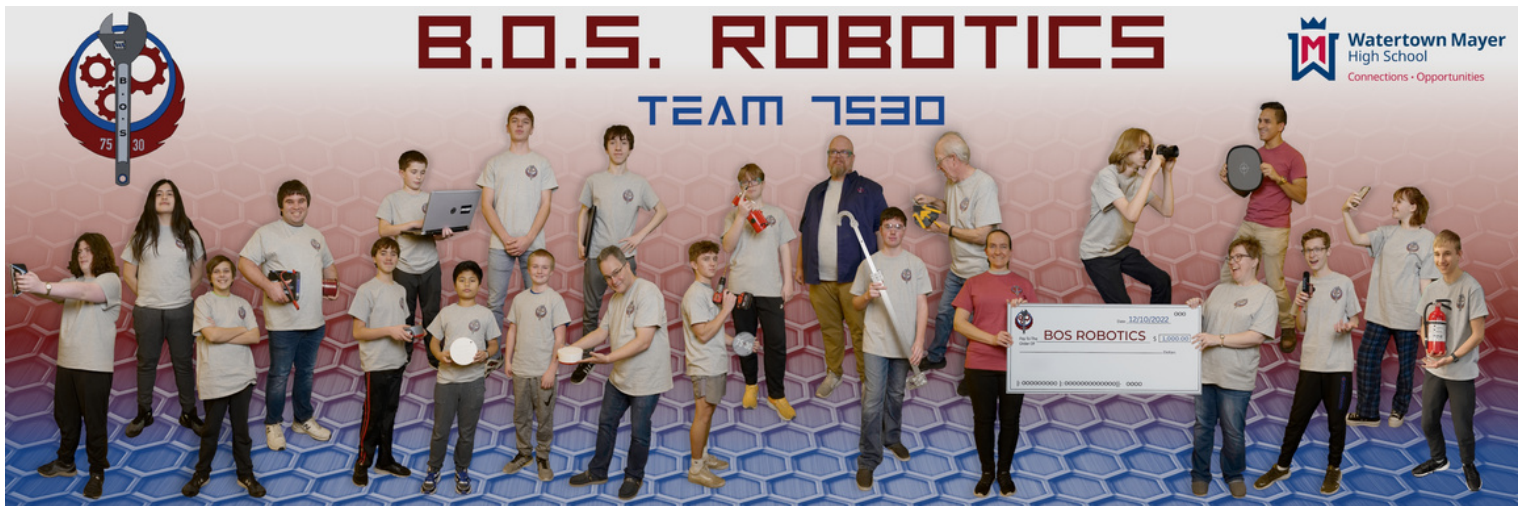


NEWSLETTER

SEASON 5, ISSUE 3



~ PRACTICE COMPETITION - WEEK ZERO ~

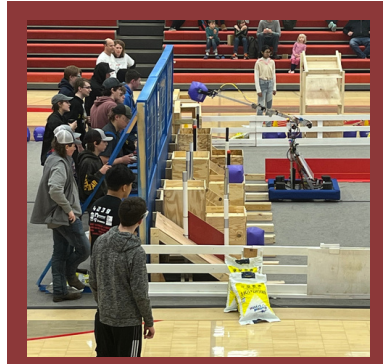
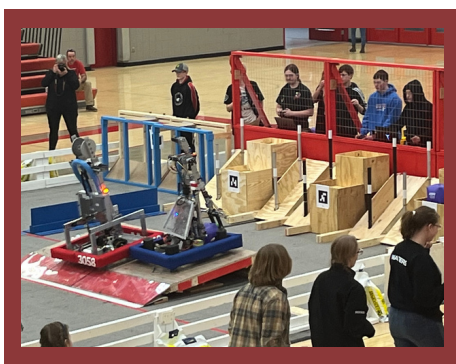


We attended Week Zero in Willmar on February 18th. This practice competition allowed us to test our robot on a competition playing field. Check out a cool video from this event on our [Facebook](#) or [Instagram](#) page.

What went well? We were successful at picking up and placing cubes on the shelves in our grid. Our end game also went well, with our robot being able to drive onto the charging station.

What challenges did we have? We had some communication issues and didn't have our cameras on our robot to assist the driver and operator. We weren't able to grab the cones really well either.

What changes will we make? We will fix the communication issues we had, install cameras on the robot and add additional drive practices for our drive team to get more comfortable driving and controlling the robot.



Thank You Silver Sponsors!

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And an Extra Thanks to Our Grandparent Donors!

John and Shirley Bertram Laura Glasgow

This week's issue showcases our Silver Sponsors. They have donated at least \$500 to our team. We really appreciate all of their support!

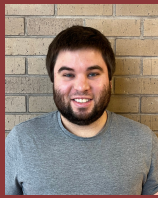
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~ MEET OUR ROBOT BUILD TEAM MENTORS ~



George Buehl
Mechanical



Nick DeNomme
Electrical



Allen Heidorn
Programming



Jeff Tronnes
Mechanical

George Buehl has a machine design background. He worked for 38 years at MTS Systems, using CAD as his primary tool. He is retired now. He has been with our team since the first season in 2018 and has a grandson on the team.

Nick DeNomme has been a software engineer at Danfoss Power Solutions for 5 years and works with a lot of CAN and Analog sensors used in machinery/farm equipment. Nick has been with our team since the first season also.

Allen Heidorn has a software engineering background. He currently manages a large health care web and mobile platform. He joined our team as mentor three years ago when his daughter expressed an interest in programming and he still mentors our team even after she graduated.

Jeff Tronnes has a mechanical engineering background and currently works at Chromatics, Inc. as a research and development operations leader. This is his 4th year mentoring and he has a son on our team.

FIND US ONLINE



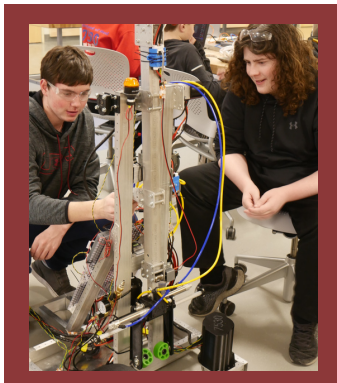
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~ BUILD SEASON - WEEKS 5 & 6 ~



The Mechanical Team finished the work on the robot's arm, mounted the battery, mounted the on-off switch and made bumpers for the robot.

The Electrical Team finished their wire management and prepared for Week Zero.

The Programming Team worked with the drive team to establish button assignments for their controllers. They also worked on setting and tweaking the safety profile so the arm and grabber won't be able to hit the floor by accident.

The Drive Team started driving and operating the robot with the game pieces we built in preparation for Week Zero.

Wish us luck at [Northern Lights Regional Competition](#) March 1-4th in Duluth!