

MECH MAVERICKS NEWSLETTER



STAY UPDATED WITH OUR TEAM!

BUILD SEASON BEGINS!

*Gathering and
discussing the
design*



WEEK ONE

We worked diligently to finalize our design for the robot, employing new members and even teaching others how to use CAD. A strenuous amount of research was put into looking into mechanisms for intake so that our robot could meet the requirements without being too tall and having the ability to score a decent amount of points! Along with this we started to assemble our game pieces like the reef base and structure.

WEEK TWO

After our first, very eventful week, we were able to calm down a little and we soldered our wire connections and finished our building levels for the reef; we even had some members bring their own soldering irons!

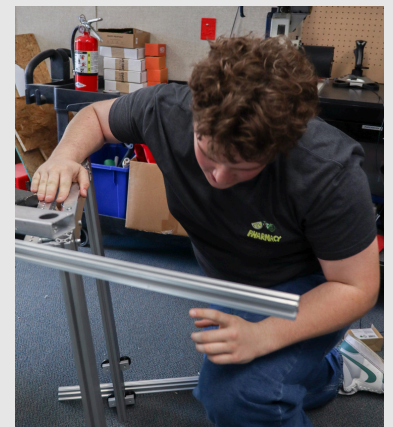


*Nolan and Peyton
assembling the
reef (Left)*

*Working on the
elevator
mechanism (right)*

WEEK THREE

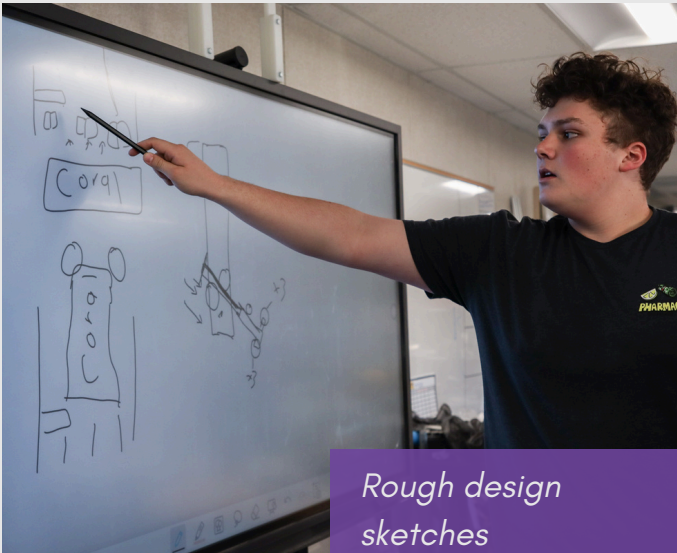
Build team in week three focused on building the elevator and started prototyping for the intake. Electronics Team continued to solder wires.



WEEK FOUR

This was the week where our elevator was almost entirely finished, we were making great progress! We mounted the outtake and the CAD chassis was finished.

TEAM UPDATES



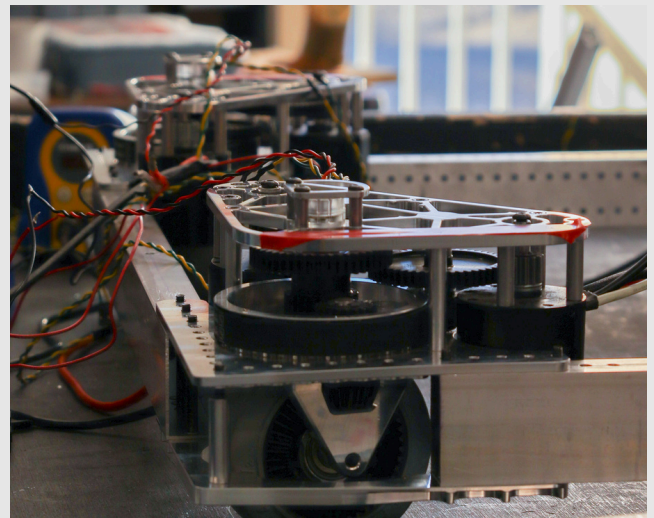
Rough design sketches

DESIGN TEAM

Our design team worked diligently to develop and model different aspects of the robot, starting with the chassis. After finishing the chassis, our design team moved towards the elevator, finishing the model by the third week, leaving room for the individual mechanisms. By week 4, our design team had finished the chassis, elevator, and began work on the individual mechanisms behind our intake and scoring.

PROGRAMMING TEAM

Programming Team has worked through many problems such as improper wheel orientation readings and rotational direction inputs. Swerve drive is fully programmed and the program ready to be uploaded to the robot and run.



Creating team products

MEDIA TEAM

Media team made eager efforts to create the news letter and start a sponsorship information page. Not only that, but they worked hard to capture the moments of the rest of our team, also diligently at work. In addition, we discovered many sponsors and companies to reach out to.

TEAM UPDATES (CONTINUED)

ELECTRONICS TEAM

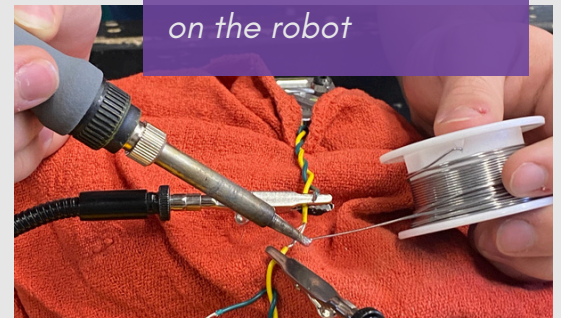
Our Electronics team over the course of January has worked together to formulate a layout for the electrical system. All wires and parts were set in place. The vast majority of wires were soldered to the proper length throughout week 3 and 4.



Soldering connections on the robot



Grinding down parts of the elevator



BUILD TEAM

Throughout weeks 1 to 4, build team has worked diligently to prototype, brainstorm, and hypothesize mechanisms. By the end of week 2, the chassis was finalized, with a 29" x 29" square being the base for the rest of the robot. Build team began work on an elevator in week 2, finishing a design and the majority of it being prototyped by the end of week 4. Build team, lastly, began prototyping on the outtake, allowing for us to accurately and reliably score coral.



GOOD JOB TEAM!