

The National Robotics League **Colorado**

Safety First & Best Practices

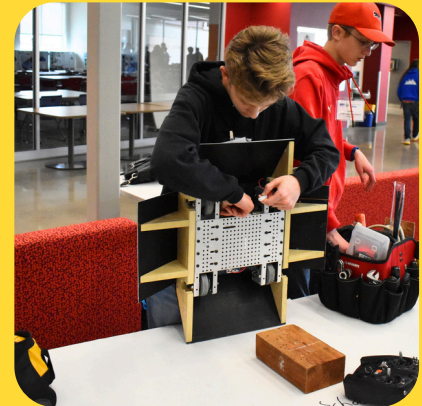
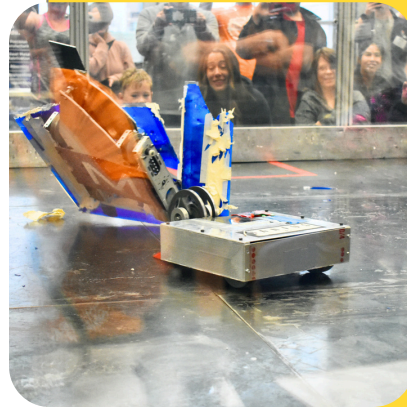
Safety First

Reminders while you are building your Bot:

- Safety First
- Be Aware of Potential Hazards to You and Others
- Use Good Judgment
- Follow Safety Rules
- Do Not Take Shortcuts
- Regardless of what tool you have in your hand, it can hurt you! Respect it for its capability...not just for what you plan to do with it.

Personal Protective Equipment

- Safety Glasses
- Dust Masks
- Hearing Protection (Ear Plugs, Noise Cancelling Headphones)
- Closed Toe Shoes
- Leather Work Gloves





Best Practices

- Only Use Tools that are in Good Working Condition
- Repair or Replace Defective Tools
- Use the Right Tool for the Job
- Ensure Cutting Tools and Drill Bits are Sharp
- Ensure Power Tools are Grounded
- Ensure Power Tool Cords are Not Frayed
- Do Not Use Power Tools Near Water
- Do Not Overload Electrical Circuits
- Always Use a Sturdy Workbench
- Do Not Use Your Leg as a Workbench
- Move Tools Away from Your Body Not Toward Your Body
- Hold Nails with Pliers when Hammering
- Avoid Loose Clothing that Could Get Caught
- Know the difference between woodworking tools and metal working tools.
- Ask questions if you have any doubts about doing the work safely
- Clamp down and secure all work pieces when drilling or sawing.
- Use good lighting so that the work piece, cutting blades, and tool controls can be seen clearly.
- Ensure that you have enough room to avoid bumping into other students.
- Unplug power tools when not in use.
- Horseplay should be prohibited. It can lead to injuries.
- Be sure power cords are not tripping hazards.
- Keep work area free of clutter, clean, well swept, and well lit. Spills should be cleaned up immediately.
- Do not rush the tool or the project.
- When using a power drill to drill through a wood or metal surface, do not have carpet on your bench or on your floor. Carpet or fabric grabs the speeding drill bit so quickly – you become wound up in a split second. This warning also includes long hair and loose clothing.