

(Introduce students to tools used for the robot)

- Soldering Iron: This tool melts a material called solder, which can be made up of different elements, to make electrical connections.
- Wire Stripper: This tool is used to strip the insulation off a wire, or cut a wire to a specific length.
- Crimpers: These are used to apply electrical power poles to the ends of bare wire, so that it can be used to connect to other components that need those power pole connections.
- Ferrule crimper: Similar to the Crimpers, this one crimps ferrules, which are a more circular version of the power pole.
- Heat Gun: This tool is used to apply heat shrink tubing to wrap it around a wire or electrical connection to prevent accidental contact to the electrically conductive metal. It can also be used for just covering a spot up.

Students will be given 30-45 minutes at the end of the week/day for their ultrasonic project.

(Last project is a free for all, students will pick a partner, think of an idea using parts on TinkerCad, and state the objective of the idea).