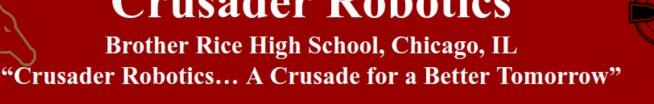


Job Safety Analysis

JOB TYPES	POTENTIAL HAZARDS	SAFE JOB PROCEDURES
Electrical ROV Work	• Cuts	Proper tools - wire cutters - wire
	Electrocution	strippers
	• Burns	Anderson power plugs
	Eye injuries	Proper glasses
	• Fire	Proper clothing
		No flammable objects in the area
		No horse play
		Proper Safety gloves
		Remove all flammable objects
		from the area

Crusader Robotics





Mechanical ROV Work

- Soldering iron sever burns sharp edges, and splatter
- PVC cutters cutting off limbs, puncturing blood vessels
- Drill cuts and burns
- Hot glue gun mild burns
- Scissors cuts
- Utility knives cuts, puncturing blood vessels
- Wire cutters cuts
- Staplers puncturing skin, bleeding
- Zip ties lost of blood flow
- Saw dust from pvc that can be inhaled/ in eyes
- Batteries have potential to leak or explode, harming individuals
- Flammables near heat catching objects

- Clean tools and maintain a safe workspace.
- Wear protective gear, including goggles, gloves, closed- toe shoes, etc.
- Make sure no tools are still out and that they are placed in proper location.
- Communicate with team members and avoid horseplay.
- Train beginners how to use tools at beginning of the year.
- Store batteries correctly and handle them carefully on designated charging station.
- Keep flammables away from other heat sources.

Crusader Robotics



ROV Operation in Water/Pool	Slip and fall	Proper footwear
	Tripping on wires	Keep pool deck neat
	Electrical hazards	Tape down
	 Drowning 	GFCI protected outlets
	Cuts from ROV	On duty lifeguards
	Moving of ROV	Proper lifeguard equipment
		Vigilance
		Proper lifting technique
		Mounted power strip
		Shrouding