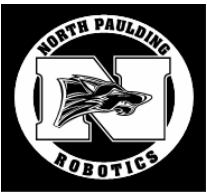


North Paulding Robotics
Job Safety & Environmental Analysis
300 N Paulding Drive, Dallas, GA, 30132, USA
MATE International ROV Competition, 2018, Ranger Class

Developing & Managing the ROV			
Initial	Task	Hazards	Controls
	Lifting heavy objects	Injury to body parts	Follow proper protocol when lifting or moving heavy equipment. Make sure hands and feet are not in the way when equipment is moved.
	Dealing With Sharp Objects	Eye Injury Minimal or Serious cuts	Wear safety goggles. Wear gloves and do not face tool toward body.
	Soldering Electrical Components and Heat Shrinking	Burning hands, face or arms Respirator problems	Wear long-sleeved clothing and have a spotter on site. Wear a face mask or take breaks when soldering.
	Drilling and Welding	Deep cuts Serious 2nd or 3rd Degree Burns	Wear thick gloves and face power tools away from your body. Make sure you are capable of handling the object. Wear a welding mask, heavy gloves, long sleeves, heavy shoes and pants.
Managing and Operating the ROV			
Initial	Task	Hazards	Controls
	Launching and Retrieving the ROV	Hand Injury ROV Damage	When retrieving the ROV, grab firmly on the frame of the ROV. When launching the vehicle, carefully insert it into the water,- do not drop it in. When lifting the ROV lift straight up from the water with both hands on the frame of the ROV.



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	Transporting the ROV	Dropping and Damaging ROV <hr/> Damage or Destruction When Packing and Unpacking the ROV	Bring containers to secure the ROV when transporting it. Make sure to put a lid on it and have a tight fit to limit chances of damage. <hr/> Carefully place the ROV into a container, using multiple people. Make sure that wires are neatly wrapped up.
	Lifting the ROV	Back Injury <hr/> Hand Injury	When lifting a heavy object make sure that you are lifting something that you know you can lift and lift with multiple people helping to avoid back injury. <hr/> When lifting a heavy object, either secure your hands onto the object or take breaks in the process.
	Connecting tether	Tether pulling <hr/> Tripping over tether	Ensure tether is securely placed in tether restraint. <hr/> Use proper coiling procedures for tether
	Operating the ROV poolside	Electrocutation <hr/> Slipping, drowning	Follow deck commands when preparing to launch ROV <hr/> Wear floatation devices when launching the ROV or on the deck of the pool
Date:			
Sign:			
Created:	Brighton Allen, Zoe Hood, August 2018		