

SPECIFICATIONS FOR RESCUE

ROBOT.

Compulsory Requirements	Minimal Requirements	Desirable Requirements
Material used in car construction should be composed of composite carbon. This makes the car less heavy, faster and consumes less energy	Backup battery for Car incase of failure of the main battery	Bright lights inside the car in case of darkness
All major components except the chassy should be made of composite carbon.	Shock absorbers in case of collisions	Comfort seats with solid seat belts just incase the car has to carry humans.
Chasse made up of aluminum or steel		The Car should be carry a maximum of four people
The car should have a pointed shape to enhance speed.		The car could possibly have Beacon lights
Two propellers for jet propulsion (easy riding in water.		Ability to open and close automatically
The wheels should be an all-terrain wheel as it should be adapted to both land and water.		Robotic arms for lifting humans and also delivering aid.
All electric components should be stored in the front cabin		
Main energy source should be electricity and solar energy as an alternative		
Main engine and a sub engine for the propellers		
The cars battery should be replaceable		

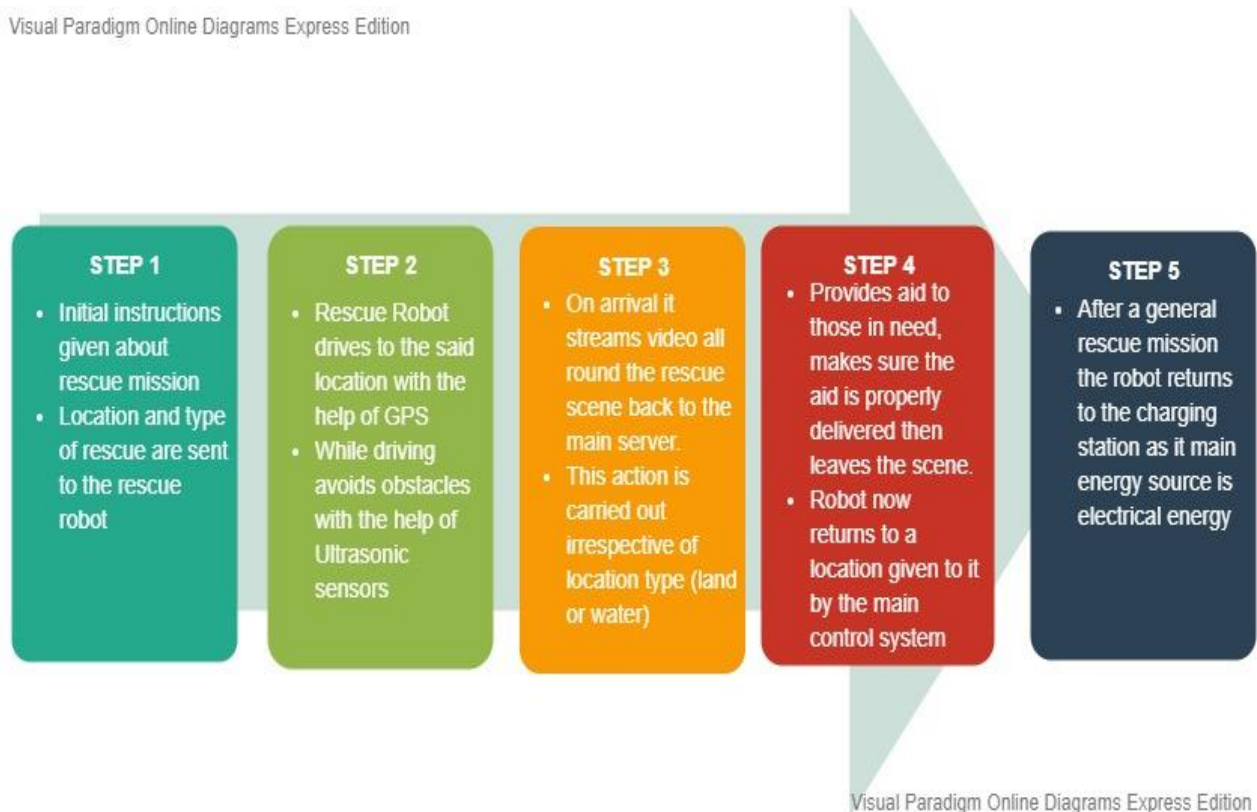
Ultrasonic sensors for object detection		
Camera for video streaming both on land and on water.		
Medical aid, first aid inclusive		
GPS for easy navigation		

AFFORDANCE AND SIGNIFIERS:

Signifiers	Affordances
Storage (A big red cross on a box)	Storing first aid, and can also carry a maximum of four human
Robotic arms	<ul style="list-style-type: none"> • Able to lift humans • Also has the ability to deliver aid
Camera	Stream videos and also take pictures simultaneously.
Beacon lights	Sends warning signals for all other cars to clear its path.
Shape	Possibility of driving both on land and on water

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Simple schematic of how the Rescue Robot works.