Requirements for Amphibious Robot

|  |  |  |
| --- | --- | --- |
| Must Have | Minimal (To have More  or Less) | Nice to Have |
| Marine grade body parts | Ability to reach a maximum speed of 100 mph | Solar powered energy source |
| Should include a LIDAR | Autonomous driving on Land and Water | Emergency siren |
| Meet German roadworthiness | Interior climate regulator | Compartment to rescue a vehicle on board |
| Heavy weight sturdy tires |  | Ability to lift vehicles out of water without getting into water itself |
| First aid box on board at all times |  | Comfortable seats |
| Obstacle Detection sensor |  | Sleek and modern interior design |
| Propeller for driving in water |  |  |
| Audio detection sensor |  |  |
| Front and Tail lights |  |  |
| Good Vehicle shape design that enables easy flow of air when in motion |  |  |
| Ideally driveable on land and water |  |  |