**Requirements for Amphibious Robot**

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| Fixed (must have) | Minimal (to have more or less) | Desirable (nice to have) |
| Marine grade parts to avoid rust | Ability to reach a maximum speed of 100 mph | Solar-power energy source |
| Ultrasound sensor for water depth detection | Autonomous driving on land and water | Emergency siren |
| Meet German roadworthiness (use) | Interior temperature regulator | Compartment to rescue victim on-board |
| Sturdy tyres that work in both land and water (transport) | Space for first aid kit and to apply first aid | Comfortable and moveable seats (ergonomic) |
| First aid box on board at all times | Space for victim to lie down and stand in the robot | Sleek and modern interior and exterior design |
| Obstacle detection sensors (e.g. audio/light sensors) | Bed/stretcher for victim | GPS for location-enabling (time management) |
| Motor for driving in water (transport) | Other essential operational medical equipment (e.g. heartbeat sensor) | Emergency foods |
| Doors on the robot for victim to get in |  | Speaker to emit pre-installed sounds for victims to follow (interaction) |
| Front headlights |  | Affordable materials (e.g. aluminium, silicone, rubber) (costs) |
| Aerodynamic design for low air resistance |  | Recyclable parts for affordability by jointing parts (recycling) |
| Waterproofed circuit elements |  |  |
| Chassis for the rescue robot |  |  |