

REQUIREMENTS

Rescue Robot

Requirement elicitation.

1. Establishing objectives.
2. Organize Knowledge.
3. Collect requirements.

1. Establishing objectives:

Business Goals: To rescue human lives and retrieve sensitive data from high risk disaster areas.

Problems to be solved: Being able to enter into high risk situations, save lives and retrieve sensitive data, where would be too risky for human rescues to reach.

Systems constraints: Rescues that assist in the recovery and exploration of dangerous areas.

Environment also consists of water, hence the rescue robot must be able to drive in water.

2. Organize Knowledge:

Stakeholders identification: Prof Henkler, George, Elijah, Patrick.

Goal Prioritizing: Ability to rescue human lives from high risk disasters.

Ability to retrieve sensitive data for investigations.

Domain knowledge filtering: Oil rig explosion rescue operation, high temperatures, cold deep blue sea, risk of loss of sensitive report data, need to transport injured people safely, polluted air with smoke, navigate through obstacles.



3. Collect Requirement:

Stakeholders requirement: Development of a rescue robot that assists in the recovery and exploration of dangerous areas, the robot should also be able to move on land and on water.

*hence, it's environment consists mostly of water.

Goal Prioritizing: Ability to rescue human lives from high risk disasters.

Ability to retrieve sensitive data for investigations.

Domain Requirements: Robots must be made with high heat resistive materials, with an ability to withstand high amounts of heat.

Organization requirements: To get people from the damaged rig to a safe ground.