

## U. R. A. R (Underwater Rescue And Research)

**Application:** Our robot rescues people instantly when in trouble underwater. It is also used for research. The URAR can bring up samples of water, soil, plants...etc.

**Sensing:** The URAR can sense heat(ultraviolet and infrared) under water, the rhythm of our heart, and can instantly analyse the substances given, for example it can find out the radioactive natures, the types of atoms present and the substance's specific spectrum. The heat and "heart's rhythm" allows the robot to track the victim who is desperately in need of help.

**Locomotion:** The URAR uses propellers and uses the "snake technique". The propellers allows the robot to submerge and diverge underwater, allowing it to control how it's going to rise the victim up to the surface. The "snake technique" is mostly used for collecting samples only when on a surface. This can be at the bottom of the lake, pond, ocean...etc.

**Actuating:** The "arms" of the robot allows it to pick things up, this is especially useful to pick up the samples for the researchers.

**Other Features:** Small storage boxes on either ends to store the collected samples

