Hard Missions Robot

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Evidence shows that researchers excavating Ancient Egyptian tombs face problems, such as narrow entrances, increase of toxic gasses, decrease of oxygen, and increase in temperature. The project presents a tool in the form of a robot that can help in solving such problems. The robot is designed to help discoverers have full data on the place under study, and simulate human motion. I expect that this robot can perform human tasks under human control. It can move on rugged surfaces and above obstacles by its four arms; it can also enter small spaces and climb stairs. Results have shown that the robot can make all the previous missions and also detect toxic gases and oxygen. It can catch an object with a grabber, and determine the dimensions of places to help produce maps. The robot also measures the temperature of places, and finally records the mission by a camera installed within. The robot has been tested for doing other hard missions, such as discovering coal and gold mines, performing as a mine sweeper, and deactivating electric bombs, as well as entering caves and performing different tasks inside.

Awards Won:

Third Award of $1,000