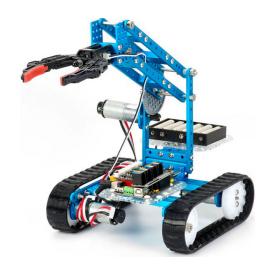
ULTIMATE 2.0 - Secret mission

Mission briefing

Your mission, should you choose to accept it, involves the recovery of a secret item designated "Husky". Because of the harsh environment you will be using Mate, a state of the art Ultimate 2.0 class robot. Mate is equipped with tank tracks and advanced robotic arm which should enable you to grab the secret item and carry it to the safety.



Robot programming

Because of the nature of the mission all robot movements need to be planned and programmed beforehand using software tool Mblock 5. Use the following commands:

• To start the programming sequence.



• To move the robot forward or backward at selected motor power and for the selected amount of time.



• To turn the robot left or right at selected motor power and for selected amount of time.



• To move robotic arm up or down. Use negative power values to move in opposite direction

```
DC motor port4B ▼ turns at power 50 %
```

• To open or close robotic arm. Use negative speed values to move in opposite direction.



• To wait for a selected amount of time.



When finished program needs to be uploaded to a robot.

Objective map:

