This vex bot falls into the category of law enforcement.

This vexbot can be used for bomb disposal.

Although there are bomb disposing robots used today, this one

Is unique being a mere 18 inches long

12.5 inches wide

12 inches tall

This vex bot is also unique for the reasons listed below:

It is able to pick up an item of suspicion and take it to a safe

area. This robot uses the vex claw kit to pick up items. The claw

is powered by a 269 2 wire vex motor. It can also extend its arm

that way it can reach an object of

Suspicion that is behind an obstacle like a tall bump that the

Robot cannot drive over. The robot extends its arm using a sprocket

and chain kit with the gear sizes of a 24 tooth and a 40 tooth

Sprockets. Not only can its arm extend but it can also raise its arm up or

down to grab an object of suspicion. When the robots arm is fully

extended and raised it can reach a height of 36 inches. The robot

uses a small to big to small to big gear ratio, which gives it

both strength and a decently fast speed going up and down.

the robots wheels move by direct drive from 2- 269 2 wire vex

motors. The robot also has a camera attached that way it can be

operated at a distance while still being able to see things.

List of parts

Quantity- names and sizes

4- 21\*25 hole chassis rails

2- 22\*25 hole chassis angle

2- c channel 151-25

8- standoffs .5

4- chassis rails 21-16

11- flat bearings

10- shafts

2- high strength gears 60 tooth

1- claw kit

1- c channel 121-25

1- slide 0-24

1- slide 1-24

26- shaft collars

1- high-strength gears 36 tooth

4- high-strength gears 12 tooth

6- vex motors 269

1- cortex

2- medium wheels

2- large omni wheels

4- rack brackets

1- 24 tooth Sprocket

1- 40 tooth sprocket

53- screws

53- kemps nuts

1- linear motion kit

1-camera