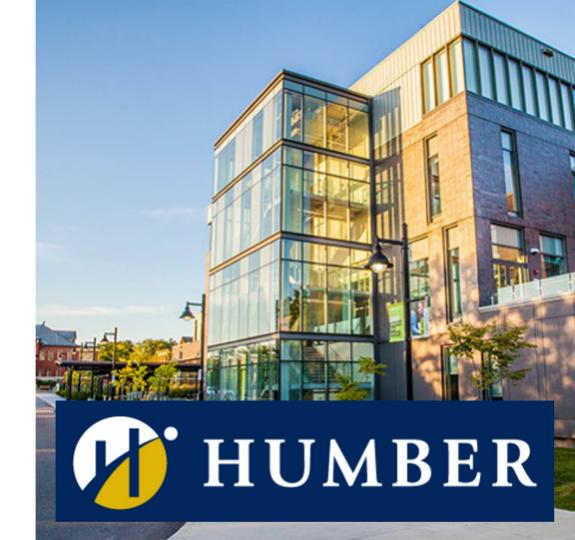
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Police Chase

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Police Station Chase

Set #60370



Module Description

The police will chase and arrest the robber, then escort the robber back to the police station when a siren is triggered



Sensors and Motors

The police car will have two motors: rear wheels and front wheels

The robber will have one motor



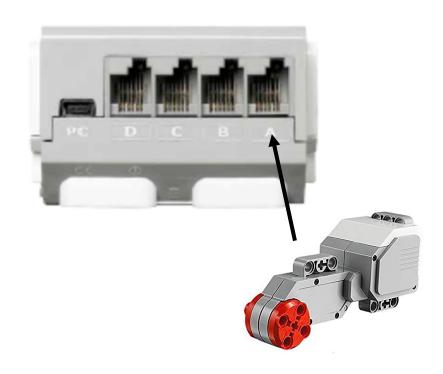
Ports

The police car

- require 2 ports and 1 CPU unit
- light sensor to one port

robbers

-one motor for motor bike



Variables/Settings

Siren status can be set to "on" or "off".

All paths will reset once police has escort robber back to the police station

```
2 "status": "on",
3 "interval", 10
```

IOT Loop

Function Chase Robber

WHILE siren NOT triggered

Continue police patrol route

IF siren IS TRUE THEN

Change to police chase route

END IF

END WHILE

Function Arrest Robber

WHILE distance between robber and police car < 2 cm

Robber follow the police car back to police station

Reset route

END WHILE

Function Robber

WHILE distance between robber and police car > 2 cm

Continue robber route

IF distance between robber and police car < 2 cm

Call Arrest Robber Fuction