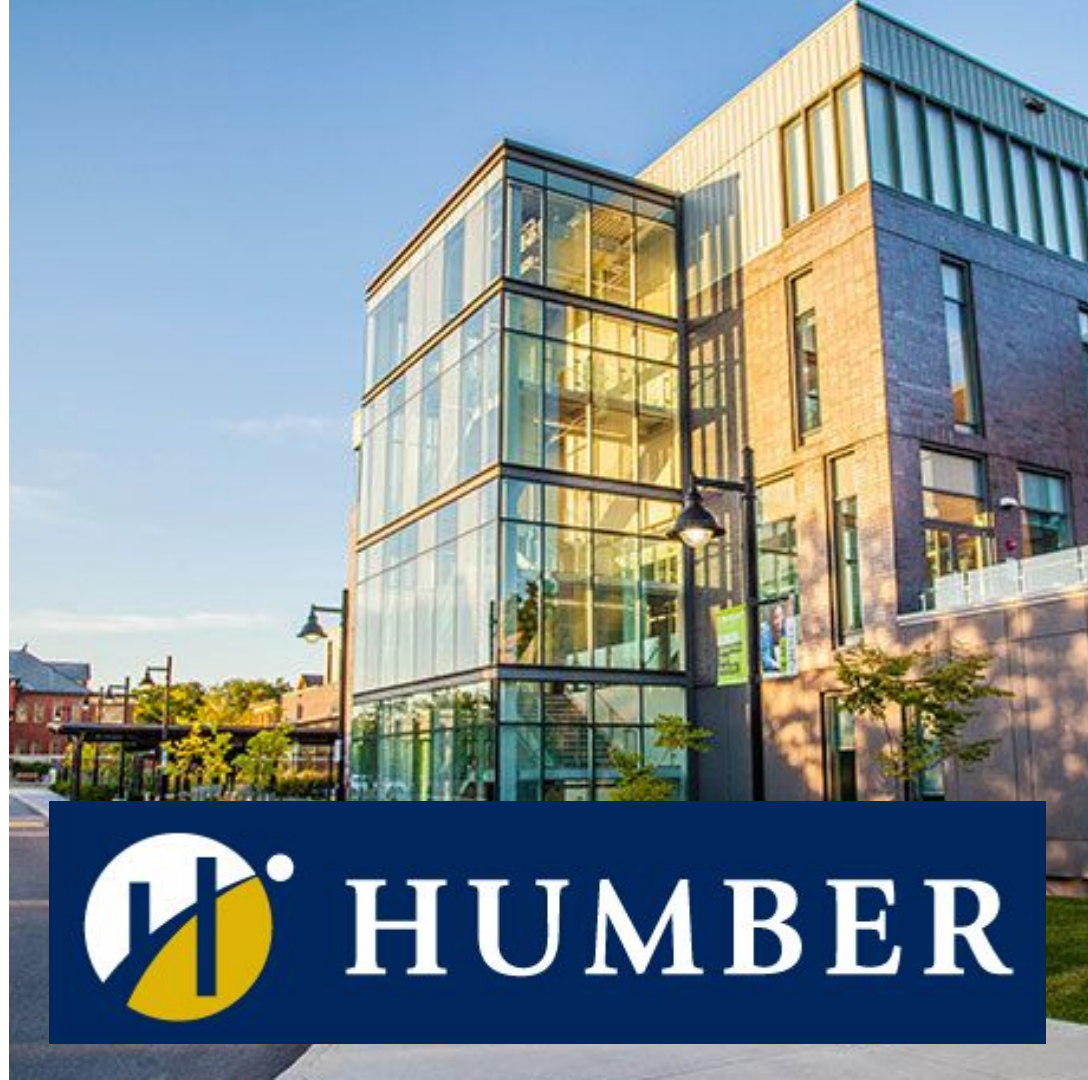


Hannah Quintos
Sarah Tadele
Khushi Patel
Saloni Pawar



HUMBER

Car Wash

Car Wash

Set #60362



Module Description

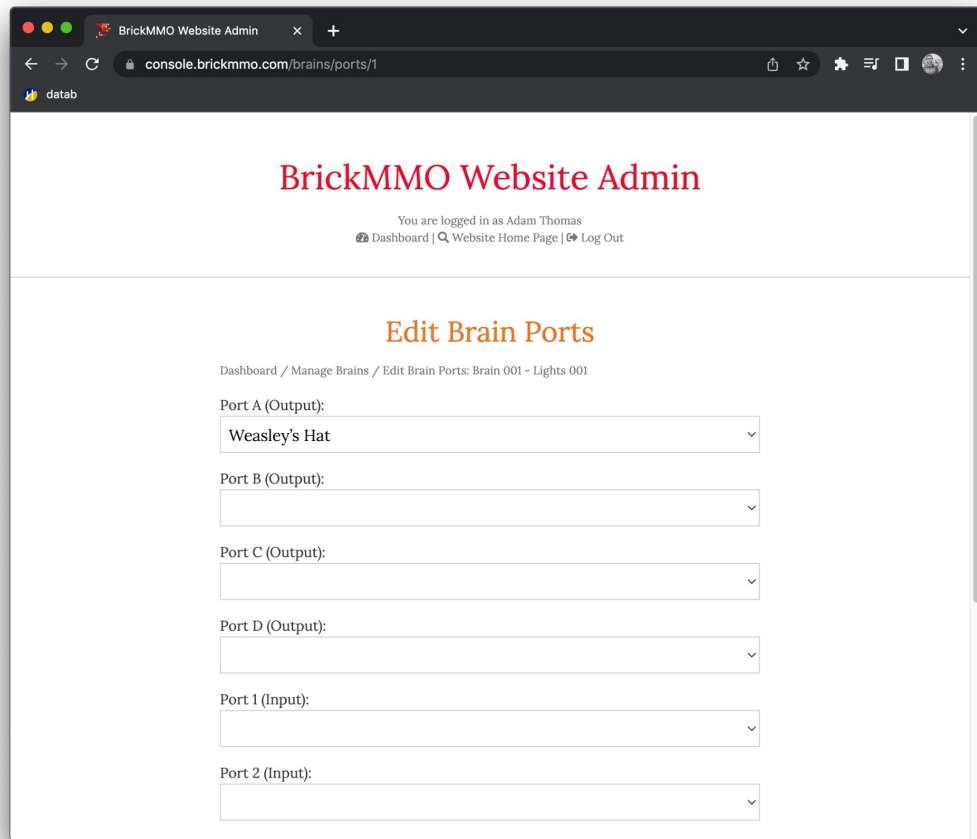
The Car wash set includes a car and the car wash building with brushes that turn once a car is pushed through.

This module will have a car that automatically drives through the car wash. Once a car enters the car wash, a light will turn red to signal that the car wash is in use. A countdown will start. Once the countdown reaches 0, the “car wash process” will be complete. The car will drive out of the car wash and the light will turn green signaling that the car wash is open and available.



Requirements

The car wash will require three output ports on an EV3 brain.



Sensors and Motors

The first output port will be attached to a motion sensor.

The second output port will be attached to a motor pair.

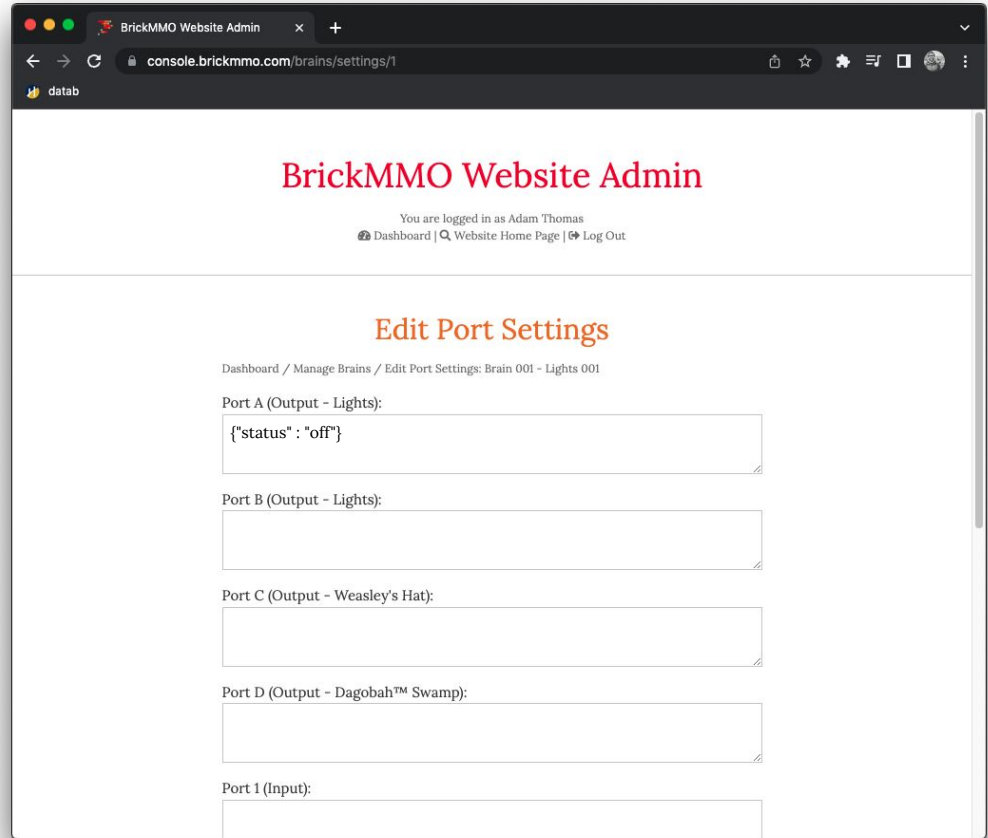
The third output port will be attached to a light matrix.



Port Settings

Status: Can be set to "on" or "off".

When on car moves through the car wash, the lights turn red and the timer starts. Once the timer hits 120s the light turn green it's set to off.

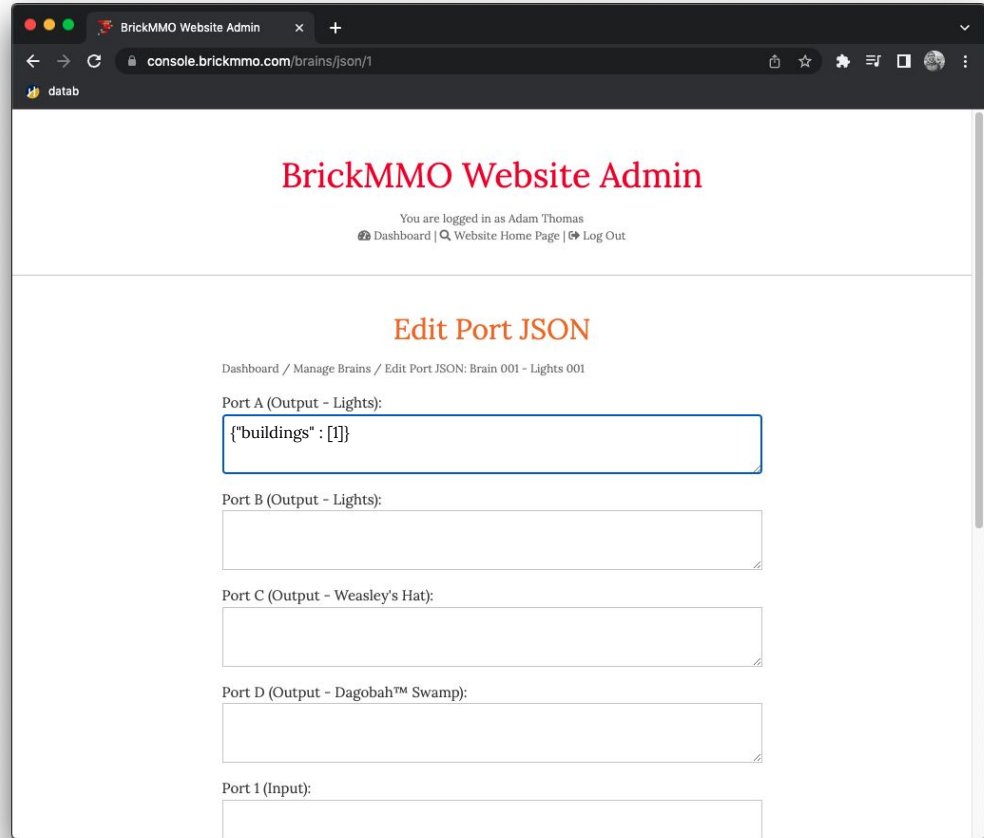


The screenshot shows a web browser window with the title "BrickMMO Website Admin". The address bar shows the URL "console.brickmmo.com/brains/settings/1". The page content includes the title "BrickMMO Website Admin" in red, followed by a login status "You are logged in as Adam Thomas" and links for "Dashboard", "Website Home Page", and "Log Out". The main heading is "Edit Port Settings" in orange. Below this is a breadcrumb trail: "Dashboard / Manage Brains / Edit Port Settings: Brain 001 - Lights 001". There are five sections, each with a label and a text input field:

- Port A (Output - Lights):
- Port B (Output - Lights):
- Port C (Output - Weasley's Hat):
- Port D (Output - Dagobah™ Swamp):
- Port 1 (Input):

Port JSON

Buildings: The ID of the Car Wash building.



The screenshot shows a web browser window with the title 'BrickMMO Website Admin'. The address bar shows the URL 'console.brickmmo.com/brains/json/1'. The page content includes a header with the title 'BrickMMO Website Admin' and a login status 'You are logged in as Adam Thomas' with links for 'Dashboard', 'Website Home Page', and 'Log Out'. The main section is titled 'Edit Port JSON' and has a breadcrumb trail 'Dashboard / Manage Brains / Edit Port JSON: Brain 001 - Lights 001'. Below this, there are five input fields for JSON data:

- Port A (Output - Lights):
- Port B (Output - Lights):
- Port C (Output - Weasley's Hat):
- Port D (Output - Dagobah™ Swamp):
- Port 1 (Input):

IOT Loop

If motion sensor = true

Then matrix light = red and countdown starts

If countdown = 0

Then car drives off

