

## Group 5

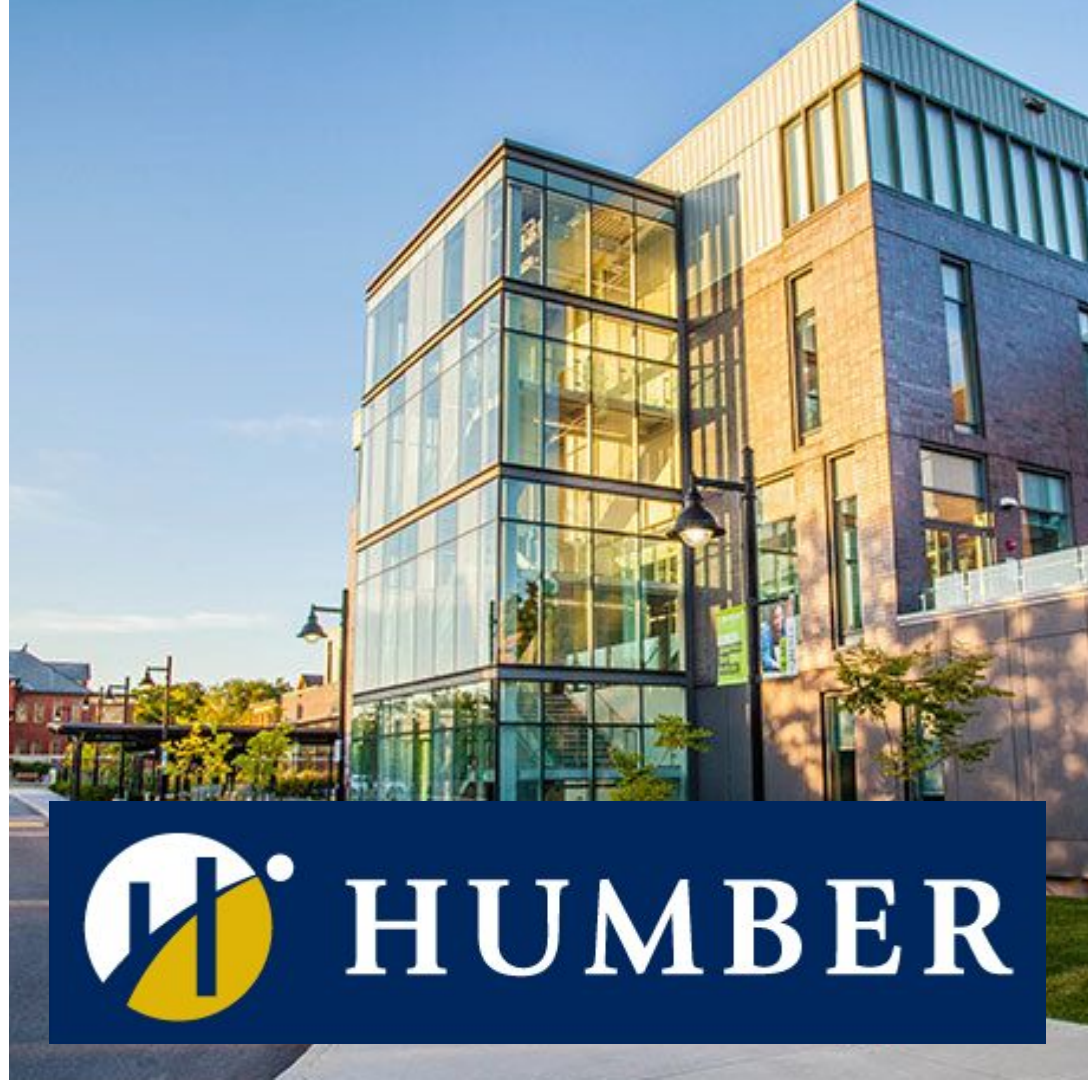
### Members:

Vaibhav

Chi-wei

Mik

Bhargav



HUMBER

**Jazz**

# Jazz Quartet

Set #21334



## Module Description

The jazz quartet will play whenever there are people in front of them in a certain distance.



# Ports

Jazz Quartet will output port on an EV3 hub to connect ultrasonic sensor.



# Sensors and Motors

Ultrasonic Sensor will be used to detect object distance



# Variables/Settings

Status: Can be set to "on" or "off". When on the quartet band will move/play whenever there are objects that are 15" or closer.

```
1 {  
2   "status" : "on",  
3   "interval", 10  
4 }
```



# IOT Loop

While distance  $\leq 15$

if status == "off"

status = "on"

Start playing the jazz

else if status == "on"

status = "on"

Keep playing

else

status = off

stop playing

