

RESULTS

The Shuttle General Information script generates the following information about the vehicle and its route. The map contains the current location of the vehicle and location of the stops, intersections and waypoints that EasyMile uses to track the progress of the vehicle. When accessed through the links, the map is zoomable and panable to examine regions of interest more closely.

Vehicle Information:

```
vehicle ID number:  VJRD1A10224000054
last seen time:    2020-01-04T02:57:10.055685Z
current position (on map):  103.77585451715645, 1.2939321165345241
current orientation:  1.4613374471664429
current speed:      0.0
no. of passengers:  null
payload:            64
battery:            73.0
connection status:  disconnected
door status:        closed
ramp status:        closed
```

Route Information:

```
operation mode:  Full Route
next stop: Opp HSSML
progress to next stop:  0.16959616005271294
eta to Innovation4.0 (depart):  null
eta to Opp HSSML:      84
eta to 29 HMK Terrace:  411
eta to BIZ 2:          730
eta to Innovation4.0 (return):  810
full route distance:  1566.8291826900995
```

	Stop name	Leave after (s)	close door after (s)
0	Innovation 4.0	0	0
1	Opp HSSML	0	0
2	29 HMK Terrace	0	0
3	BIZ 2	0	0
4	Innovation 4.0	0	0

Map Legend:

Purple square: current location
Red dots: stops
Green dots: road junctions
Yellow triangles: route waypoints



Figure 1: Maps displaying shuttle location, intersections and waypoints

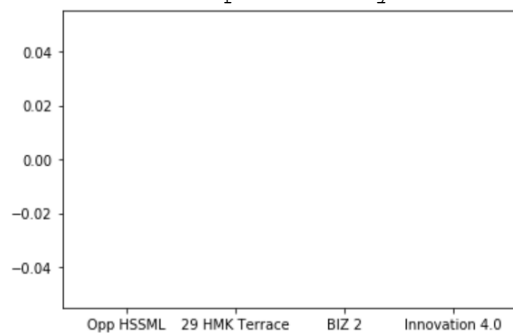
The Post Route Analysis script generate data on passenger ridership, speed profile and displays the tracked locations on a map. It runs throughout as the shuttle moves from stop to stop and will generate results at the end of the loop. This allows us to identify anomalous points where the shuttle stops along the way and identify bottle necks to the shuttle's route.

Distance travelled: 5.0

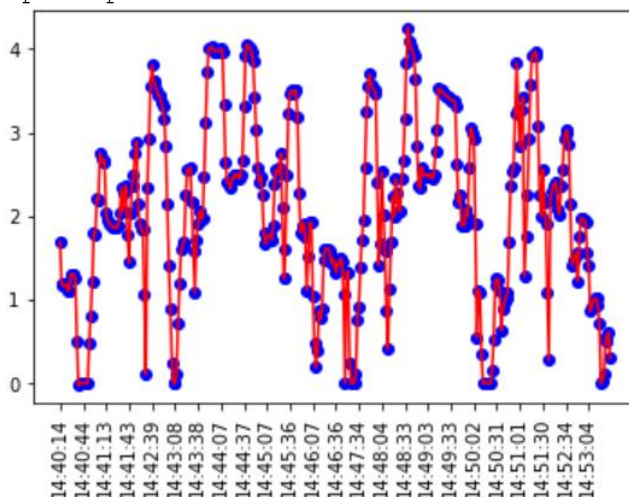
Battery used: 13.0 %

Graph of no of passengers served to each stop:

*side note: at the time of data collection, no passengers were on board the shuttle presumably due to the vacation period



Speed profile over time:



Map Legend:

Purple square: stations

Triangles: tracked locations

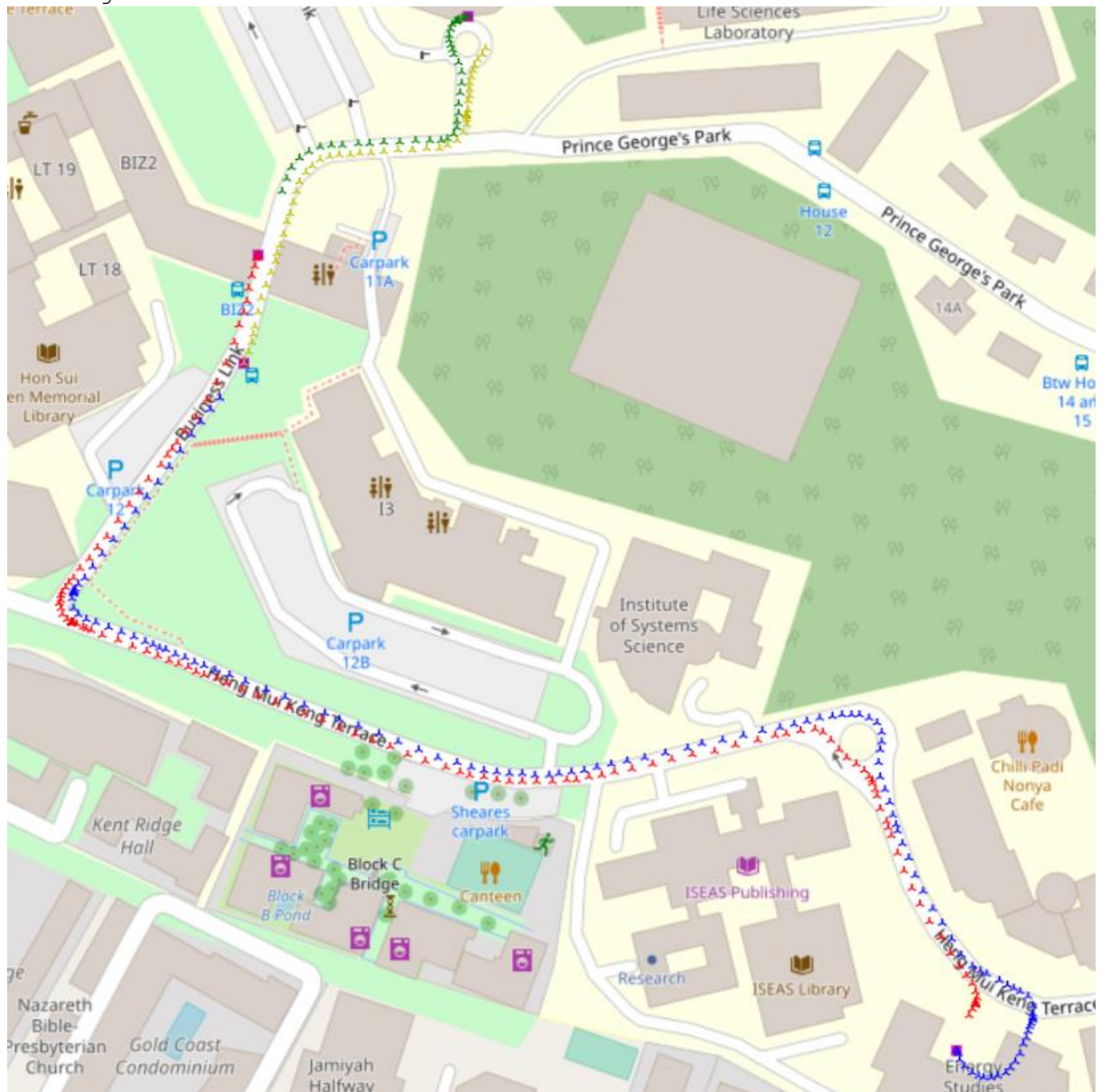


Figure 3: Tracked positions of the shuttle every second