# Bike Sensor Placement

Lane Width - 3m
Car Width - 1.8m

Sensors

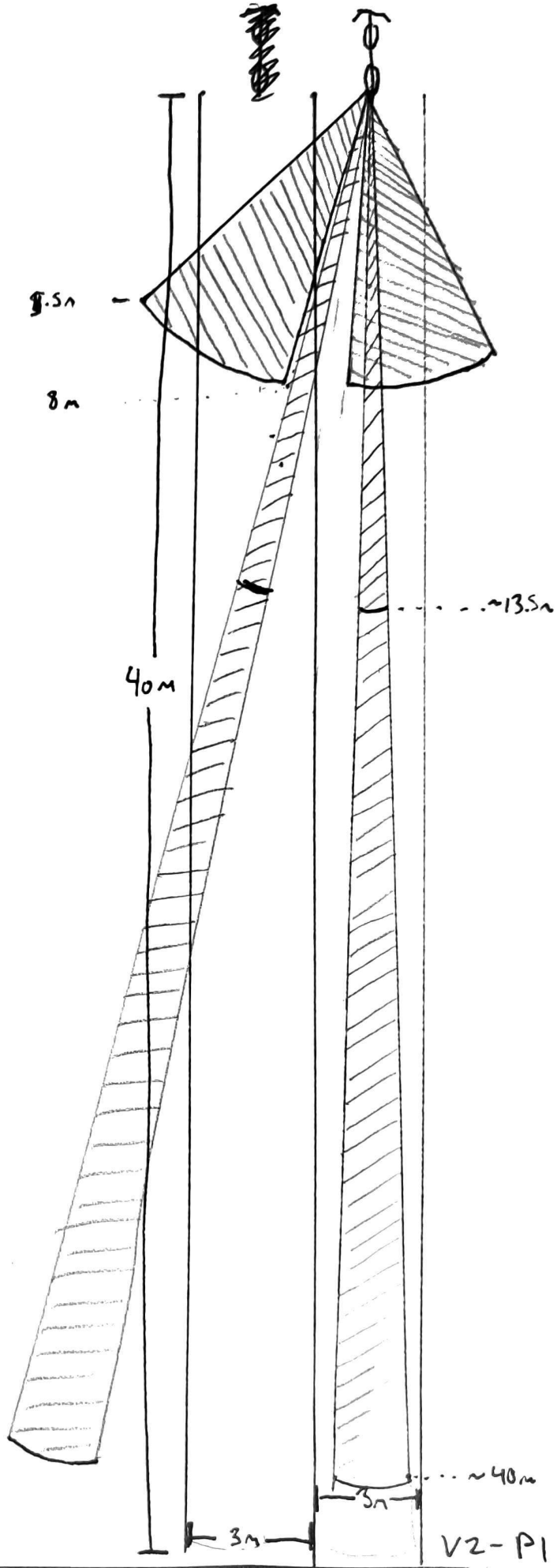
LIDAR Range x 2
Max 40m (90% reflectivity)
13.5m (10% reflectivity)
FOV 3°

ULTRASONIC x 2
10m range
FOV 30°

- First LIDAR aimed directly back 0°
- ~~Second~~
  First Ultrasonic aimed to cover lane to left
- Second lidar aimed to cover lane to left while assuring limited space between ultrasonic and LIDAR pickup such that a full car couldn't fit
- Second ultrasict covers back if LIDAR interfered w/ & gives some protection to the back right

BIKER ASSUMED TO BE ON THE RIGHT SIDE OF THE ROAD

NOT SYMMETRIC




V2-P1