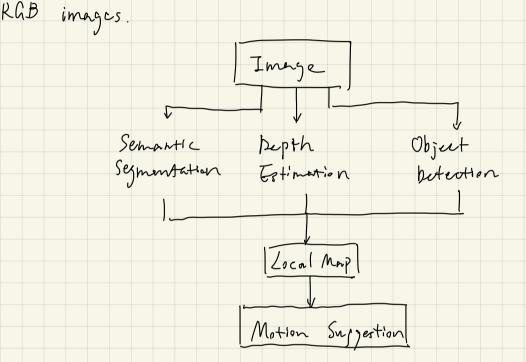
A Local Monocular Mapper for Self-Pring Cors

We propose a project that designs a visual system

that is able to localize a vechicle in static scences

and generate local maps useful for decision—making in the

configuration space. The whole system vans on individual



The segmentation and object detection modules act as supplements for inconsistencies and inaccuracies of depth estimation and enhance the granularity of the map.

The neat part 13 that if he use a 2 stage object detection or just use segmentation, all networks and shore the same backbone feature extractor.

```
Job 0
 Painfally do literature reviews and search for datasets.
Job 1
         U-Net / FCNN/... for sementic symentation
         YOLU? / Faster RCNN / Mark RCNN /...
Reproduce
                                           for object detection
J.b 3
Reproduce / Implement a depth extinction network
Job 4
Integrate them
7065
 Implement the mapper
Run it on video / simulater so it looks good on demo.
 Things we won't be doing.
 1. Polohal Mapping state we don't know the global static map.
 2. Direct Motion Planning since we don't know the C-specue.
 3. 52 AM since he nots on static images
4. Garanntee the architecture will be the same after me are done
  with it since he can't predict the future.
 J. Do this end-to-ond, since no don't have such a dotaset
```