# Master-Praktikum - Learning for self-driving cars and intelligent systems - Winter 2019/20 Weekly Report: Sensor Modality Fusion

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## **Accomplished tasks:**

- Find 3D object detection papers using point cloud only:
  - VoxelNet: End-to-End Learning for Point Cloud Based 3D Object Detection(with code)
  - PointRCNN: 3D Object Proposal Generation and Detection from Point Cloud(with code)
- Try to run some existing networks for VoxelNet and PointRCNN
- Trained the Image Only network for more epochs
- Find 3D object detection papers using monocular image only:
  - Monocular 3D Object Detection for Autonomous Driving

# Tasks planned for next week:

- Continue running some existing 3D Object Detection networks
- Implement the metrics for evaluating 3D Object Detection
- Start to implement a state-of-the-art fusion network

### Issues / Roadblocks:

• The computing resources in the lab are mostly occupied by some users; so we did not get enough storage to run the network implementations.