Plan for the week 1 (Oct. 30 - Nov.4)

- Hung's Instructions
  - - sign up for MOOC course on self-driving car (SDC)
  - - do a little survey on state-of-the-art in 3D pose estimation from monocular camera (both still image and video based methods) for computer vision in general and SDC in particular
  - - play with existing SDC simulators
  - - read deepCNN, deep ResNet, and LSTM tutorials and play with the provided code. For example, have a look at this page http://colah.github.io and this page https://medium.com/towards-data-science/an-overview-of-resnet-and-its-variants-5281e2f56035
  - - Create a github repo (using free student account for private projects) and invite me to join: https://github.com/gandalfvn
  - - Whatever I assign you to read, code, or study: try to produce something out of it so as to use in your thesis later, e.g., write a summary/review of the methods/papers in latex. Commit your progress to github weekly before meeting with me.

- Resources found
  - CV
    - Intro to Computer Vision
      - https://classroom.udacity.com/courses/ud810
  - SDC
    - MIT 6.S094
      - http://selfdrivingcars.mit.edu/
  - CV + SDC
    - Computer Vision for Autonomous Vehicles:Problems, Datasets and State-of-the-Art
      - https://arxiv.org/pdf/1704.05519.pdf
  - Neural Network
    - colah's blog
      - http://colah.github.io
    - An Overview of ResNet and its Variants
      - https://medium.com/towards-data-science/an-overview-of-resnet-and-its-variants-5281e2f56035
    - NN for ML - coursera courese

        - https://www.coursera.org/learn/neural-networks
    - 3D pose estimation based on monocular camera
        - 3D Bounding Box Estimation Using Deep Learning and Geometry
            - https://arxiv.org/pdf/1612.00496.pdf
        - Deep MANTA: A Coarse-to-fine Many-Task Network for joint 2D and 3D vehicle analysis from monocular image
            - https://arxiv.org/pdf/1703.07570.pdf
    - AI - udacity
        - intro to AI
            - https://classroom.udacity.com/courses/cs271
        - AI
            - https://classroom.udacity.com/courses/ud954

- My working plan
    - Theoritical fundations
        - Courses: one lecture per day
            - Intro to Computer Vision
            - MIT 6.S094
            - Neural Network
    - Papers for the first week 1 (Oct. 30 - Nov.5)
        - Computer Vision for Autonomous Vehicles:Problems, Datasets and State-of-the-Art
        - 3D Bounding Box Estimation Using Deep Learning and Geometry
        - Deep MANTA: A Coarse-to-fine Many-Task Network for joint 2D and 3D vehicle analysis from monocular image
    - explore more at the spare time