* **Introduction and Motivation** (say about the general excitement in autonomous cars)
  + Some 2 general introductory paragraphs…road map for this chapter (0,5 pages)
  + **Driverless Cars Revolution** (2 pages)
    - Current development of autonomous cars
    - Future development of autonomous cars
    - Directions of research in autonomous cars
  + **Main challenges to bring autonomous cars on the** **roads** (2 pages)
    - Law regulations in autonomous driving
    - Safety
    - Public acceptance
    - Indirect Implications of autonomous cars revolution (Say about increased demand)
    - How people will cooperate with autonomous cars - conflicts, collisions and interactions on the road (humans)
  + **Gap in the research, this project** (2 pages)
    - Gap in the research, reason why the study was carried out, significance of the study
    - A statement of the problem to be addressed arising from identified gap
    - Statement of research questions, aims and objectives
  + **Experiment** – initial design (3 pages)
    - What will be tested, what we want to be tested and why
    - Initial requirements
    - Experiment design - real world research
  + **Roadmap** (1 page)
* **Software engineering** (again say what you wanted to achieve + roadmap for chapter)
  + **Environment choice** (Say about ROS and SUMO as initial idea)
  + **Software architecture** (say about SUMO structure)
  + **Simulation Server Application design**
  + **Client Application Design**
  + **Communication between machines** (add some literature on this)
* **Experimental design** (state again want we wanted to achieve, what are the methods)
  + **Scenarios**
    - Scenario 0
    - Scenario 1
    - Scenario 2
    - Scenario 3
  + **Client’s interface**
  + **Human Car control**
  + **Modelling car dynamics**
    - **Car following models as literature background**
    - **Our autonomous IDM model**
    - **Comparison with human driven**
  + **Experiment execution**
    - Questionnaire
    - Minutes
* **Results and Discussion**
  + **Observations**
    - Deceleration mapping
    - Evaluation of participant performance
    - Conflict resolutions
  + **Hypotheses**
  + Autonomous cars reduce number of accidents
  + Autonomous cars smooth-out the traffic
  + Most efficient traffic could be achieved with solely Autonomous vehicles
  + Interactions were better between two human drivers
* **Conclusions**