Customer Meeting | 10 September 2020 |

Introductions:

Bob

* Uber ATG
* Analysis Team
* Scalability and Performance

Jimmy

* Software Team
* Route Planning

Dr. Mohr

* Advisor

Dr. Brooks

* Advisor

Sara Danenhower

Ryan Schuller

Devin Baldi

JD Severtson

Thomas Clement

Discussion

Scope

* Smaller Scope
* Going from the mailroom to Jim’s office (In the machine shop)\
* Delivery is a big thing.
  + Moving away from just driving passengers
  + End goal (in future years)
* Building a chassis
* Think about operational domain
  + What obstacles are there in the path of the delivery robot?
  + What hardware and software choices must we make?
    - Environment plays a huge role in this design.
* Open platforms for robotics
  + ROS (robot OS)
  + Complete a trade study to find the best platform for this project.

Focus on ROS

* Dr. Mohr has little experience with this platform, so we should begin early.
* Jimmy is a good resource for ROS.

Chassis:

* First robotics starter kits are an excellent resource because they are very adaptable.

Computing platform:

* Arduinos are a good option.
* NVIDIA packages are also a viable option.
  + Look into Jetson.

Carefully look at the operational domain.

Define what it is that we are trying to do.

Come up with questions about package specifications.

What speed will this robot go?

There are a lot of COTS options for parts of this design.