

STATUS REPORT – Your Name

Writer	Payton Irwin, Will Wu, and Onja Rabenarivo	
Status Update Period	Week of 01/20/23	
Professor	Dr. Dorothy Wang	
Accomplishments for the week of (01/15/23-01/20/23)		
<ul style="list-style-type: none">• Came up with our timeline and questions about project.<ul style="list-style-type: none">◦ Split into Theoretical work and controller estimator design before spring break.◦ Then navigation and algorithm work after spring break.• Planned meeting dates and times, approximate 3x meetings a week.• Found the classroom and ensured swipe access.• Set up group GitHub, Google Doc, and Obsidian for collaboration.• Came up with topics to research from our timeline.<ul style="list-style-type: none">◦ Ex. Control Theory, Estimators, ROS◦ Completed basic research on the Linux command line and feedback loops.◦ Beginning sensor research, starting with measurables from each sensor.• Set up and installed Ubuntu and ROS on Raspberry PI.• Set up and confirmed ability to make a remote connection to Raspberry PI.• Checked out a PI hat, a car skeleton, and a lidar sensor.		
Plan for next week (01/21/23-01/27/23)		
<ul style="list-style-type: none">• Keep modeling the PI car with state space models, hope to complete this by next week.• Designing system ID experiments for the motor, need to work on this synchronously to the modeling to be able to complete the state space models.• Investigating ROS, understanding what syntax we will need to be familiar with and gain a better understanding for how the program works.• Begin simulations on the PI car, hoping to begin this near the end of next week, as we complete the state space models.		
Topic Outline/ Progress toward deliverables		
I.	Finish modeling the Pi car with state space models	Scheduled to complete by 01/26/23
II.	Start simulation on the Pi car	Scheduled to complete by 01/27/23
III.	Start investigating ROS	Scheduled to complete by 01/25/23
Issues		
<ul style="list-style-type: none">• None yet 😊		