Point-based sensor visualization

Advanced sensors for autonomous vehicles are needed to sense the environment and make decisions. This project proposes to take Velodyne LiDAR data and displaying it on the screen of a smart phone. The data should be displayed in such a way as to indicate unsafe and safe regions for driving. Touch interaction could be used to indicated desired trajectories of the vehicle, and departure from those trajectories during operation would be displayed. Velodyne data are available from the instructor, and sufficiently advanced projects may interact directly with the device.