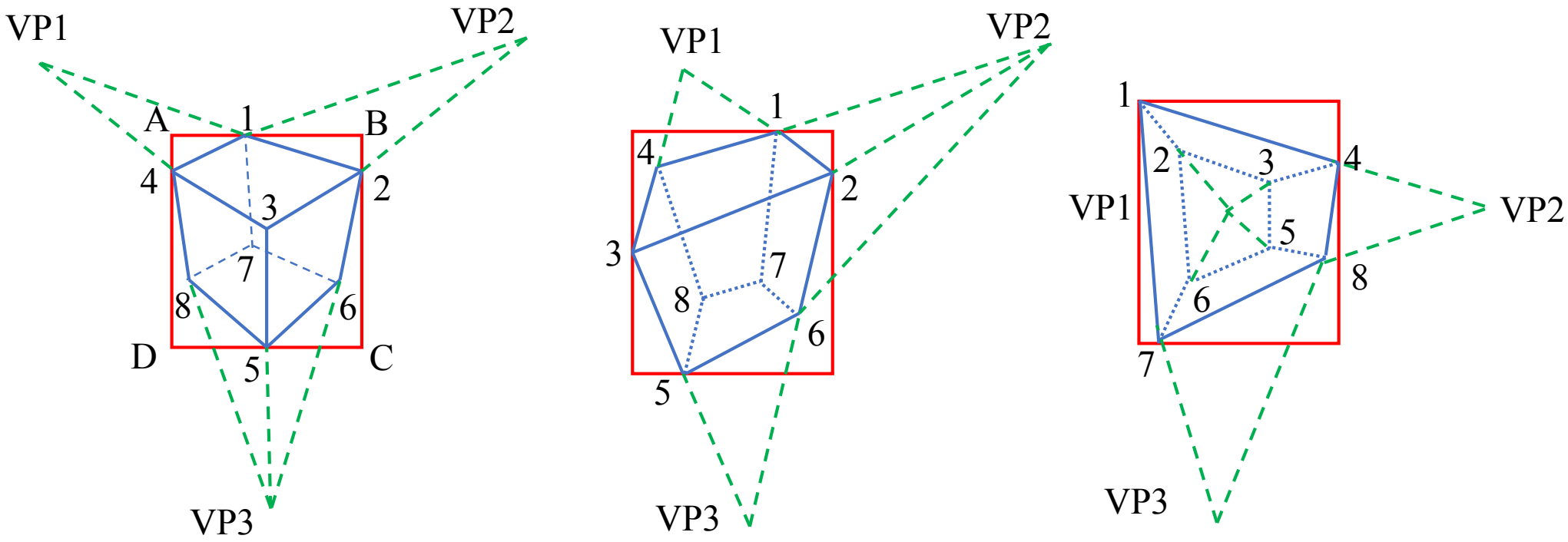
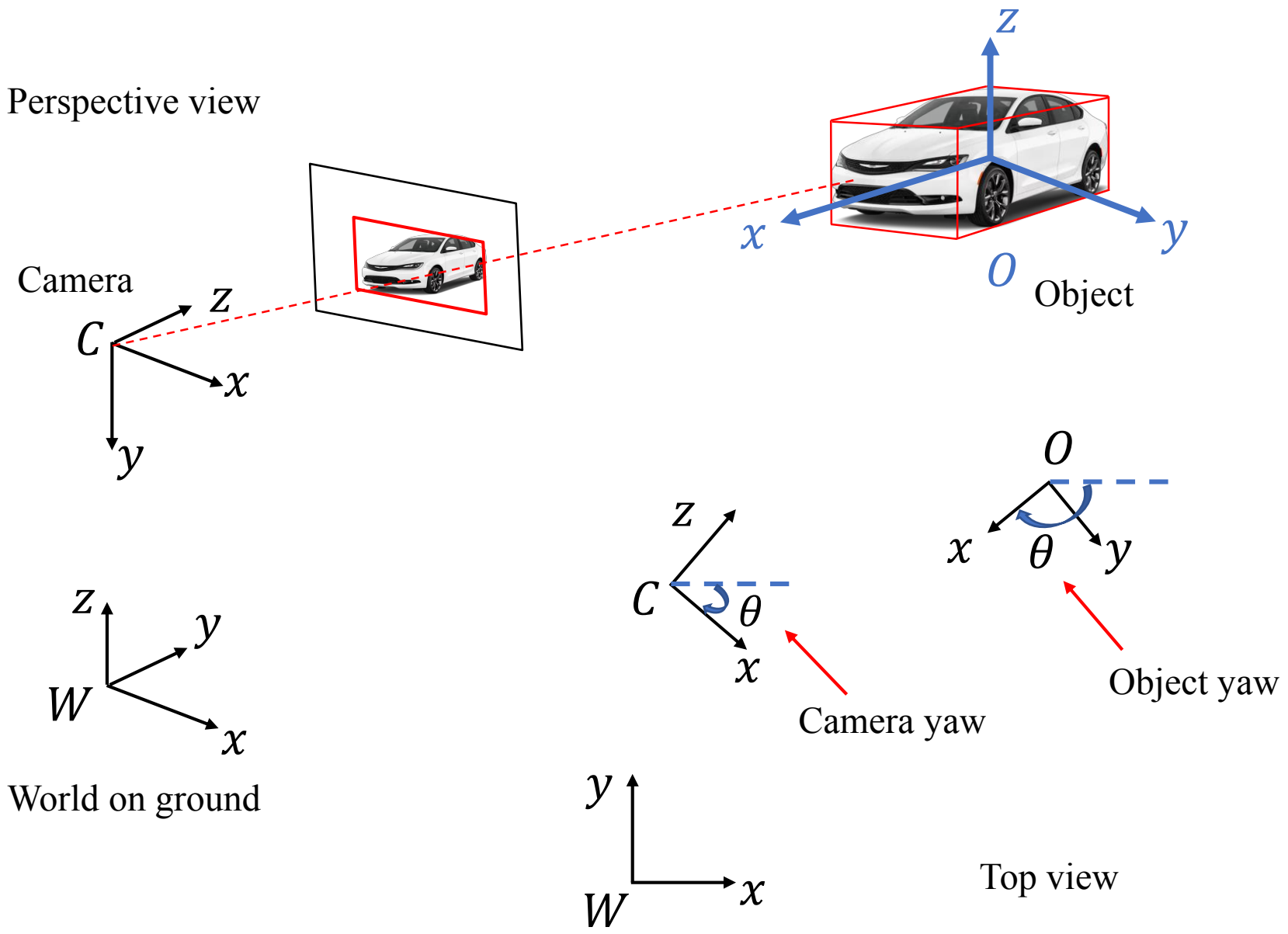
Proposal generation illustration



(a) Three faces (b) Two faces (c) One face

Coordinate System



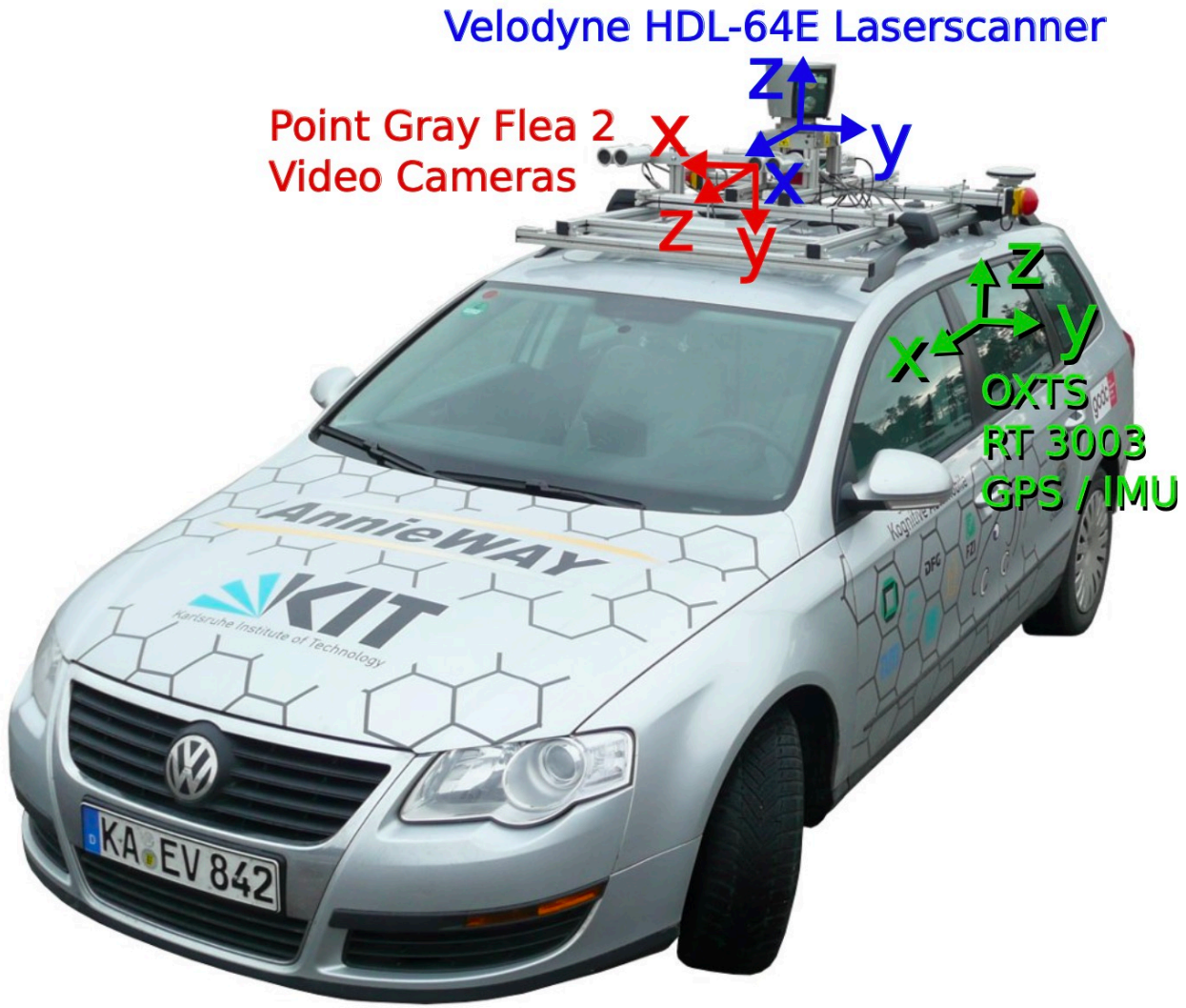


Fig. 1. **Recording Platform.** Our VW Passat station wagon is equipped with four video cameras (two color and two grayscale cameras), a rotating 3D laser scanner and a combined GPS/IMU inertial navigation system.

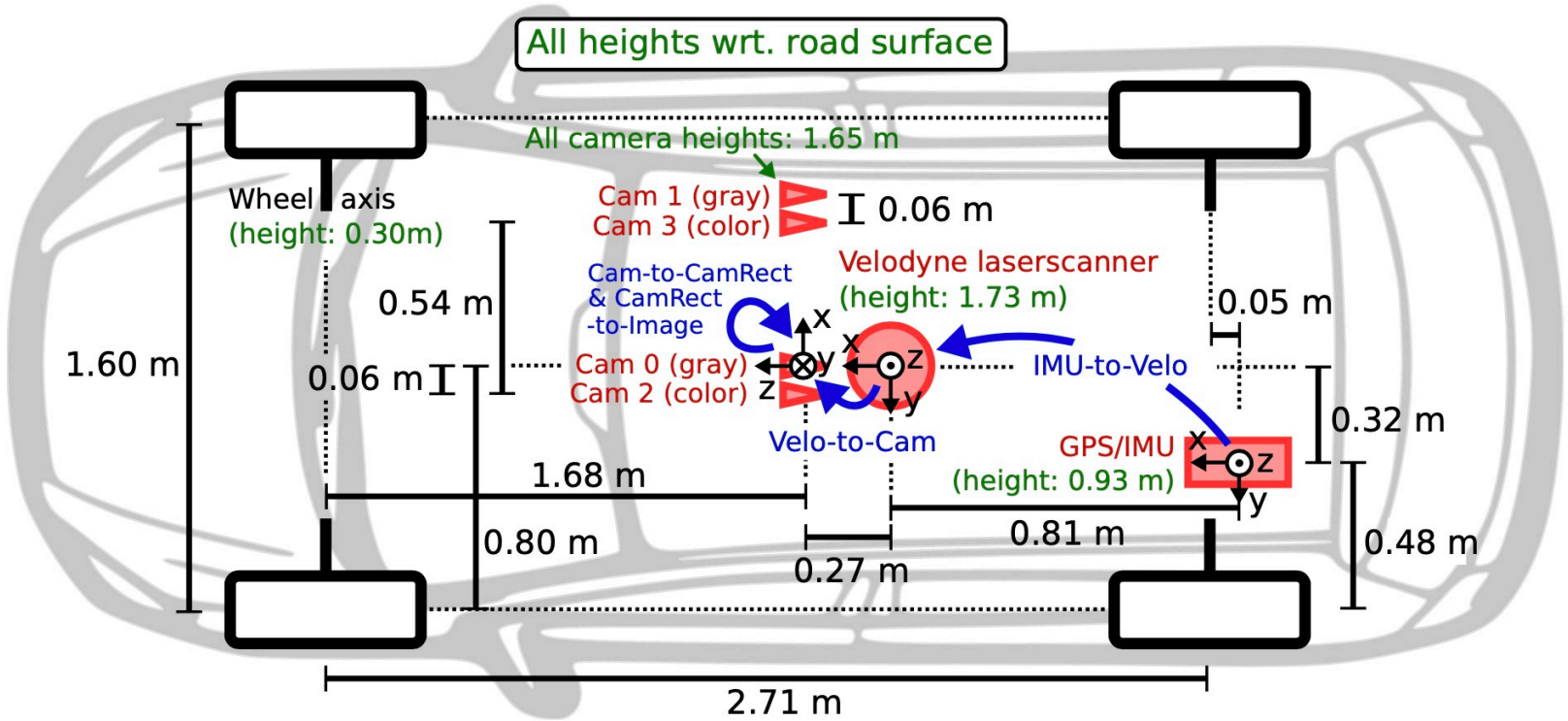


Fig. 3. **Sensor Setup.** This figure illustrates the dimensions and mounting positions of the sensors (red) with respect to the vehicle body. Heights above ground are marked in green and measured with respect to the road surface. Transformations between sensors are shown in blue.

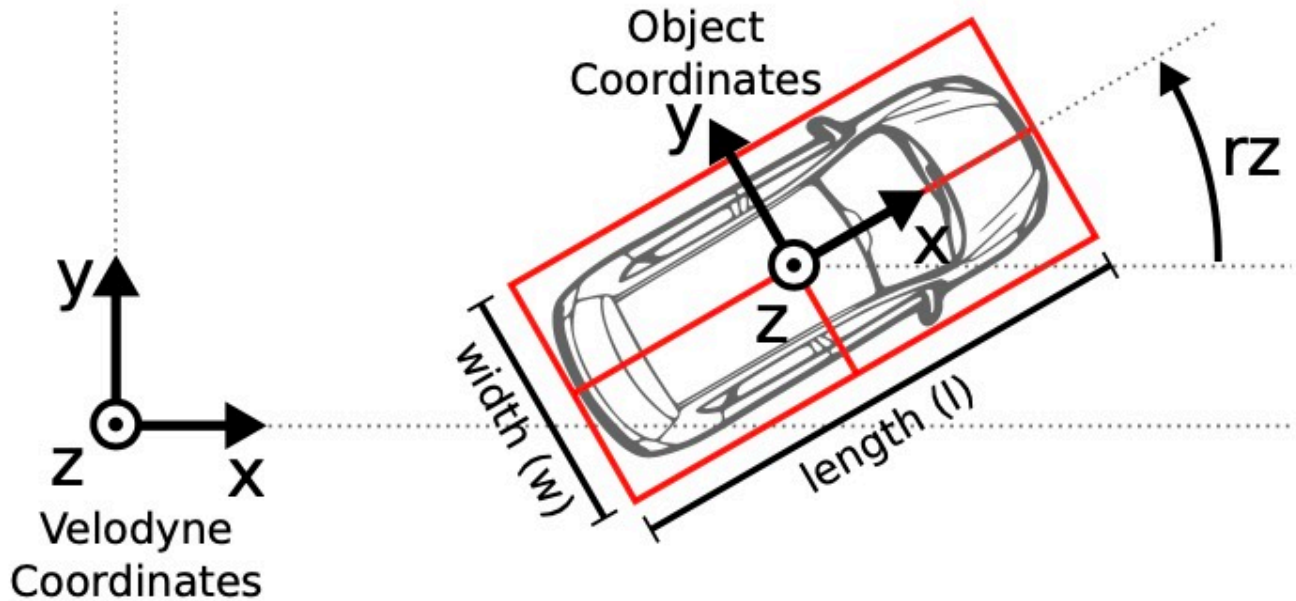


Fig. 7. **Object Coordinates.** This figure illustrates the coordinate system of the annotated 3D bounding boxes with respect to the coordinate system of the 3D Velodyne laser scanner. In z-direction, the object coordinate system is located at the bottom of the object (contact point with the supporting surface).