CONTAINER MISALIGNMENT DETECTION SYSTEM AND METHODS FOR AUTONOMOUS VEHICLES

ABSTRACT

Systems, methods, and computer program products are described herein for container misalignment detection for an autonomous vehicle. Misalignment of a container loaded onto an autonomous vehicle is detected by receiving data including an indication that the container is loaded onto the autonomous vehicle. A scanning device mounted on the autonomous vehicle captures a plurality of data points in the vicinity of the container. A misalignment detection module identifies a first data point of the plurality of data points and a second data point of the plurality of data points. The misalignment detection module evaluates a height difference between a height of the first data point and a height of the second data point. The misalignment detection module determines whether the container is misaligned on the autonomous vehicle based on the height difference. An indication of whether the container is misaligned is provided.

[Figure 1]