Robotic Perception Sensor: Depth Sensor

Yezhou Yang, Ph.D.
Assistant Professor
Zhiyuan Fang, Teaching Assistant
Arizona State University



Depth Sensor



Kinect, Microsoft

"Kinect for Windows," Kinect - Windows app development. [Online]. Available: https://developer.microsoft.com/en-us/windows/kinect. [Accessed: 10-May-2019].

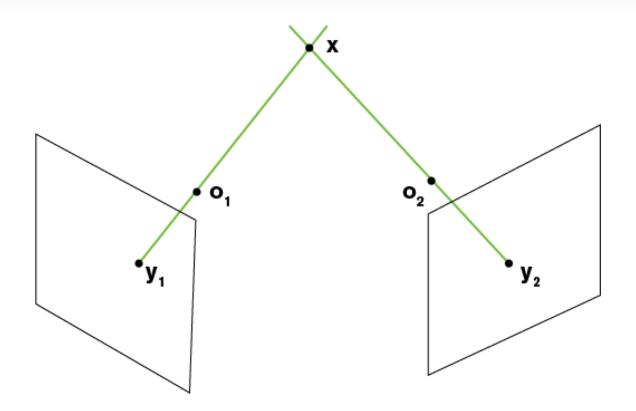
Depth Sensor





Depth Image

Stereo Triangulation



Triangulation

 The two projection lines (green lines) can be determined and they intersect at point x (3D point).

ZED camera



ZED, stereolabs