

RZ Ecosystem Partner Solution

Ignitarium 3D LiDar-based People and Object Detection/Tracking

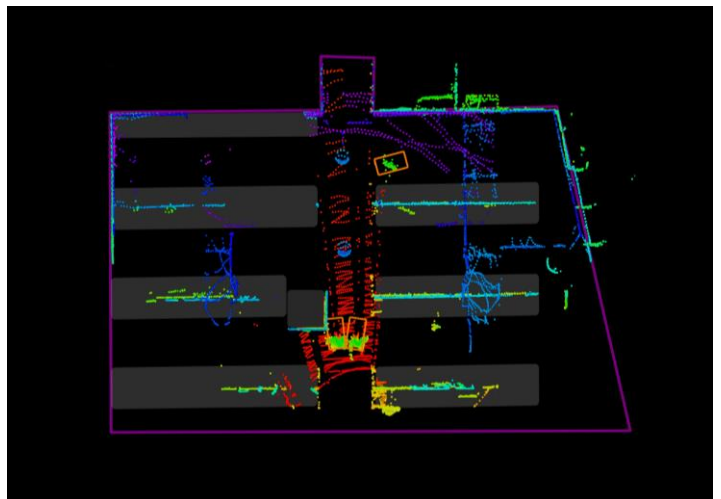


Solution Summary

People and object detection/tracking is a software component which detects people or objects, tracks and analyses their movement using 3D LiDAR and deep learning. The 3D LiDAR support is now available for [RZ/V2M](#).

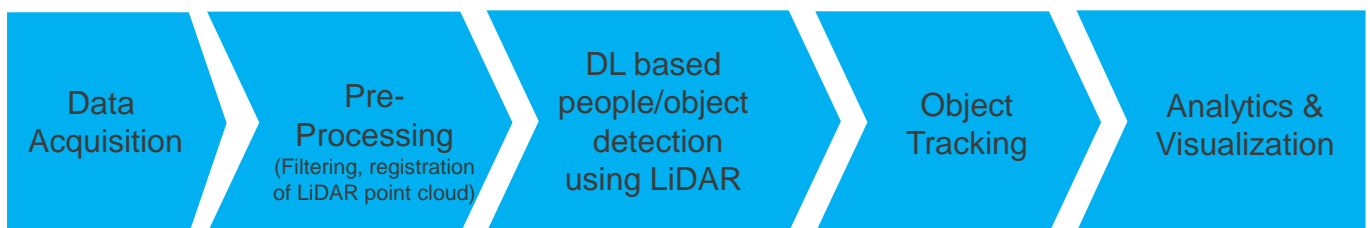
Features/Benefits

- Suitable for edge device in real time applications
- High performance and accuracy
- Robust in varied environmental conditions
- People & object analytics in indoor and outdoor environments
 - Counting and tracking
 - Flow monitoring
 - Dwell timing
 - Heat maps



People Detection and Tracking in Office Environment

Diagrams/Graphics



Target Markets and Applications

- Warehouses
- Office Spaces
- Retail
- Events / Exhibitions
- Intelligent Traffic Management

Product Engineering services

Long-standing ecosystem Partner for Renesas

2012

Year Established

100+

Projects Delivered

95%+

Customer Retention Rate

Highlights

- Ignitarium is a boutique product engineering house that combines its expertise in Semiconductor, Embedded software and AI to realize cost-effective system solutions to solve demanding real-world use cases
- With focussed efforts in building capabilities in AI and Robotics, Ignitarium has emerged as a trusted engineering partner for large global enterprises as well as AI start-ups

Services Overview

- Software Design Services
- AI & Cloud Software
- Silicon Design Services
- Solutions



Automotive



Medical



Consumer Electronics



Industrial



Robotics

Focus Areas

- Perception AI
 - Camera, Lidar, Radar
 - Audio AI
- Data Analytics (time-series data)

AI Software offerings

Data Preparation



Model Development



System Architecture & Application



MLOps Best Practices



Model Porting & Optimization



Benchmarking



Utilities & Tools



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