

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 <u>RZ/V2M</u>.

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



www.ignitarium.com



Product Engineering services

Long-standing ecosystem Partner for Renesas







Year Established

Projects Delivered

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 •

Focus Areas

 Perception AI ÷ • Camera, Lidar, Radar Consumer Automotive Medical Electronics Audio Al Data Analytics (timeseries data) ۲<u>ش</u>۲ Robotics Industrial Al Software offerings T) ŧ\$ Model Porting & Optimization **Data Preparation** \$\$\$ \$ Model Development **MLOps Best Practices** Benchmarking System Architecture & **Utilities & Tools** × Application

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