



Project Details

Title	Physical Asset Tracking Vision Platform
Topic Areas[3 keywords relevant to the project]	Tracking, Computer Vision, 3D, Visualization, API
Company Name	BMW Group - Plant Hams Hall
Target Problem [1-3 sentences]	We have up to 100 logistics vehicles operating in and around our plant. Keeping track of their locations and also understanding whether the routes they take are optimal can be difficult. Traditional tracking hardware that relies on GPS does not work inside accurately, the cost of installation additional hardware like Bluetooth Low Energy (BLE) can also be very expensive.
Project Aim [1-3 sentences]	Utilize existing CCTV camera streams that monitor the facility to track the logistics vehicles and distinguish them from each other. The output of the vision model should X Y Z coordinates of each vehicle in the cameras view in real time. The data should be pollable by an API so that we can overlay this tracking data into our Digital Twin / Vehicle Management System.
Target Users [1-5 keywords/phrases]	Logistics Operations
Technologies [1-5 technologies required in case of project implementation]	TBC in case of implementation
Skills Needed [1-5 keywords]	<ul style="list-style-type: none">- Computer Vision and Object Detection- 3D Geometry and Camera Calibration- Real-Time Streaming and Data Processing- API Development and Integration- Digital Twin Integration and Data Visualization