



RSA 2021/2022

Stopped Bus Safe Passage



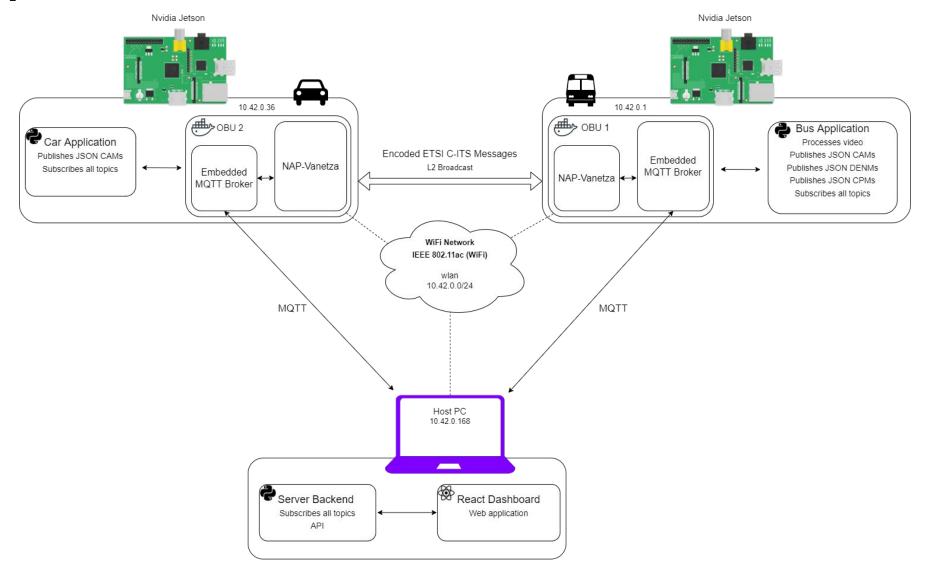
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- → Detection of persons and vehicles through a camera mounted on a dashboard of a bus
- → Warn surrounding cars about vehicles coming the other way and persons on the road in front of the bus

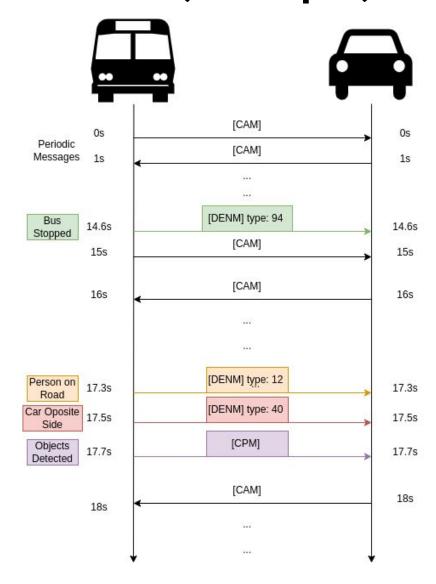


System Architecture





Demonstration timeline (example)





Demonstration

"receiverType":5, "rssi":-255, "stationID":1, "test":



carobu 1 | CPM JSON: {"fields":{"cpm":{"cpm":{"cpmParameters":{"managementContainer":{"referencePosition":{"altitudeConfidence":14,"altitudeValue":15.97},"latitude":40.6041932,"longitude":-8.66327 32, "positionConfidenceFllinse":{"semiMajorConfidence";4095, "semiMajorConfidence":(0.0, "semiMinorConfidence";6}, "numberOfPerceivedObjects":4, "perceivedObjectContainer":[{"classificat ion":[{"class:{"vehicle":{"confidence":98,"type":3}}} "confidence":98}], "objectConfidence":98,"objectID":0, "objectRefPoint":0, "timeOfMeasurement":0, "xAcceleration":{"longitudinalAccelerationConfidence": 0.0, "longitud nalAccelerationValue":0.0}, "xDistance": "confidence":1.0, "value":1216.28}, "xSpeed": {"confidence":1.0, "value":11.27 nValue":0.0}, "yDistance":{"confidence":1.0, "value":1216.28}, "ySpeed":{"confidence":97, "type":1}}, "confidence":97, "type":1} e":97, "objectID":1, "objectRefPoint":0, "timeOfMeasurement":0, "xAcceleration":{"longitudinalAccelerationConfidence":0.0, 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Questions?