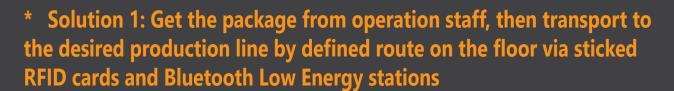
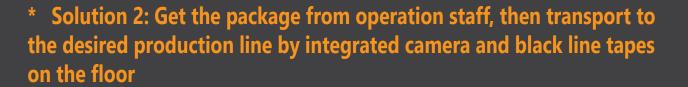
IoT Project Automated Guided Vehicle

A robot with manual and auto operation modes which is used to transport packages from the warehouse to production lines









Providing monitoring and controlling user interface via web app, API endpoints for intergrating with other systems

Multiple operating modes

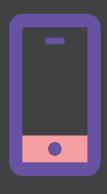


Allowing admin or developer directly control AGV via web app



Via AGV integrated display

Warehouse operator or worker chooses pick up and delivery target location



Via mobile app

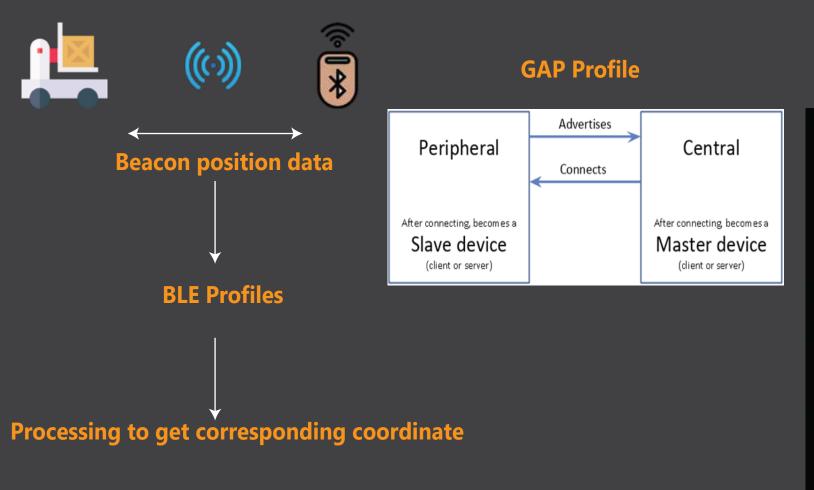
Operator or worker chooses delivery package part on MES Mobile app

Manual mode

Automated mode

Navigation and position system | Bluetooth Low Energy

Working principle BLE Profiles



GATT Profile

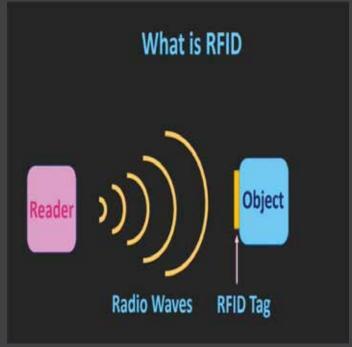


Navigation and position system | RFID

Working principle ((**) Read data on card via card reader RFID card position data

Processing to get corresponding coordinate





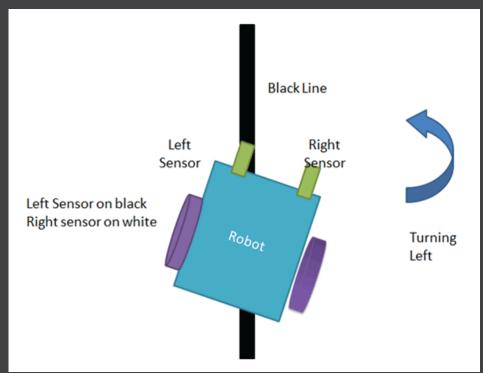
Write new data to RFID card

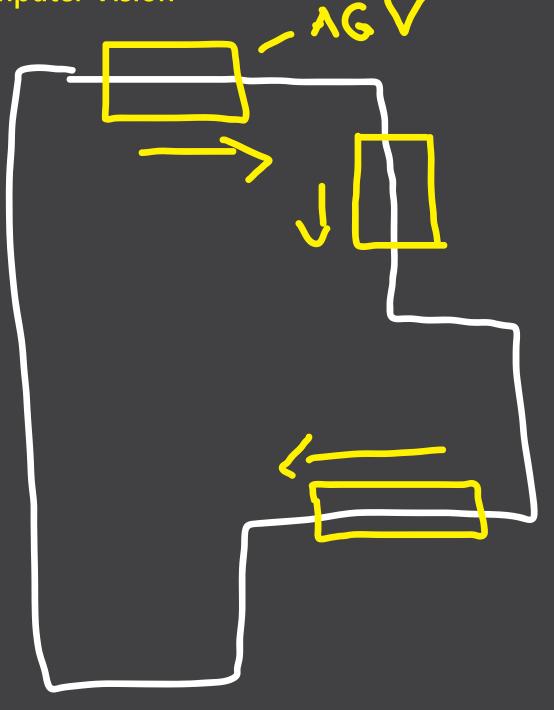
Change/Update data to RFID card

Navigation and position system | Computer Vision

Working principle







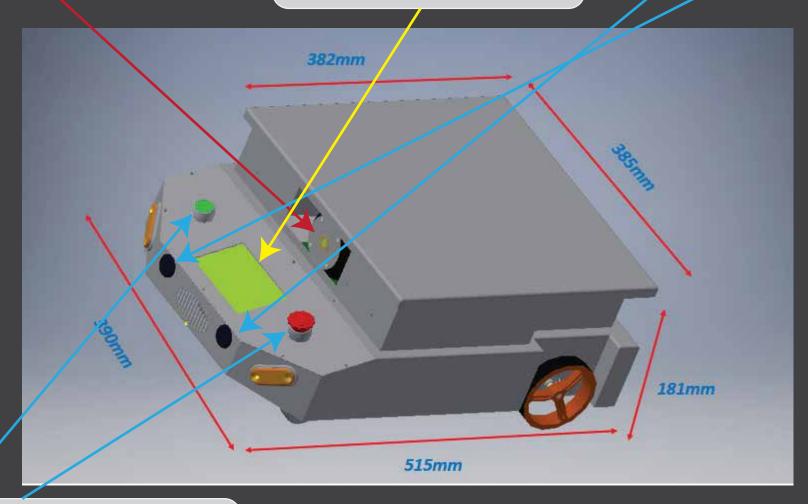
General description | Hardware design

Hardware

Camera for monitoring easier

Touchscreen for manual configuration and display operating data

Sensors for avoiding obstacles



Start/Emergency Stop button

