Vehicles are expensive investments – they need routine maintenance and constant upkeep to avoid costly repairs. At scale, this becomes a complex logistical challenge. Failures can be costly to the fleet owner in vehicle downtime for unexpected maintenance and repairs.

By tracking the routes these vehicles take and cross-referencing it with vehicle diagnostic data, users can find correlations and develop insights.

**Design Spec**

**Tracker:** sits on the dashboard of the vehicle with a cable connected to the OBD-II port, extracting vehicle diagnostic data and collecting GPS, accelerometer, and gyroscope data via onboard sensors.

**Web App:** an interactive map to track the vehicle location along with a statistics page with a dashboard of KPIs and calculations over historical data.

**Available Vehicle Parameters**

- Vehicle Speed
- Engine Rot. Speed
- Gyro. (X/Y/Z)
- Accel. (X/Y/Z)
- Throttle Pos.
- O2 Sensor Voltage
- O2 Sensor Fuel Trim
- Barometric Pressure
- Abs. Load Value
- Latitude
- Longitude
- ... and more!

**Network Resources**

With a single on-chip LTE/GNSS modem, our firmware uses time-division multiplexing for concurrent LTE and GNSS functionality.

**Live Tracking**

- Visualize vehicle parameters in time series charts.
- Compare vehicle data across multiple vehicles.

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