fleetum_IO: IoT tracking device for working equipment

job can be as a single person or in an team.

approach

The chair for Materials Handling, Material Flows, Logistics (fml) has developed a smart IoT device in cooperation with Vemcon (automation StartUp for heavy equipment). The aim is to track machines in order to gather condition and performance data during equipment operations.

job to be done

Equipment data is sent via UMTS to the backend of fleetum which serves as telematics system. As the next step, the calibration of the tracking device needs to be facilitated within a smartphone application. Therefore, there is need to develop a communication layer for connecting the device via a smartphone app and further near field sensors in order to enable a M2M communication. The IoT device bases on a Raspberry Pi. A student with knowledge of the current architecture is available. The interface to the backend is RESTfull.

or...

Smart folks wanted with good knowledge in Python and/or Raspberry PI and/or Android programming.

skills

- Knowledge in embedded software engineering
- Hands-on experiences with Raspberry PI or similar
- Android app programming and deep knowledge of UI design

- „If you can't explain it simply, you don't understand it well enough.“
  A.E.

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