

IoT based Construction Site Monitoring System for Highway Engineering

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Abstract—To facilitate remote data acquisition and control of devices, Internet of things is a popular research field. Various factors are involved in the construction phase of highway engineering. In order to make proper decisions according to status of the engineering project, corresponding data should be obtained and processed in time. In this work, on-site construction site monitoring station is implemented with embedded Linux system, various kinds of sensors can be connected with it. Data can be stored and process at the station and uploaded to the data sharing cloud platform. Browser and Android App clients can connect to the on-site monitoring station or the data sharing platform. With the help of the data and instruction relay function, in both sceneries, data can be shared in real time and instructions can be sent to the on-site monitoring station instantly.

Keyword—Construction Site, Monitoring, Internet of Things(IoT) , Highway Engineering.



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