Master 2015

Muhammad Junaid Chaudhary

Interactive Wireless Sensor Network Monitoring System based on Android Platform.

ABSTRACT - Masterthesis

The aim of this Master Thesis is to develop a Wireless Sensor network Monitoring system based on Android platform which is user friendly and allows for easier controlling and measuring data of various sensor nodes, routers around a given area.

- To design and implement a Bluetooth connection between the Bluetooth transceiver (the Bluetooth transceiver is connected to the sensor node hardware) and android device.

- To design and implement the communication methods between the android device and the web server that has a defined data base.

- To design and implement an interactive wireless sensor network monitoring system that runs on smart phones / tablets that visualizes the network topology, sensor node output (status, measurement results, time stamping, and energy consumption).

- The "Wireless Sensor network Monitoring system" should accommodate minimum of 250 sensor nodes including routers.

- Performing test and verification.