Internship project status report

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Title of project: Communication module interfacing
Duration of internship: 26 march 2014 to 10 july 2014
Summary of my contribution to project: In the beginning in was quite enthusiastic and for the first two weeks my work was quite successful as a matter of fact was satisfactory to the soul by making manuals and videos then when the bluetooth module did not work we bought a new module from the market which worked to some extent but could not be interfaced with firebird which i spent much time verifying but did not involve due to diverting our interest towards presentations and video tutorials. Finally for WiFi even though i learnt android app making and java GUI could not implement due to lack of time and resource.

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Objective of the work: The concept of serial communication was very appealing as it is something we did not implement in the competition and were immune to its knowledge. It also seemed to be something which we had much scope of usage in our future project.
Scope of the work: In this project we were assigned to first verify different network configurations on Zigbee then make video tutorial on serial communication then configure bluetooth and interface it with firebird then make manuals and video tutorials and optional WiFi module.

Objective of the work: We successfully completed all tasks pertaining to Zigbee i.e. test its network configurations and make video tutorials and manuals or it. We completed the serial communication experiments 13 A, 13 B, 13 C manuals and video tutorials. We also completed configuring of bluetooth. And configuring of WiFi in two available modes.
Results and Discussion: As a product of this result we made a systematic guide for configuring various modules in different projects as and when needed. We also made some applications with Zigbee of our own. Through video tutorials and manuals and codes for interfacing with firebird we aimed at simplifying the serial communication to students like us who did not have much knowledge of it and want to use the concept in their project. We completed most of the tasks assigned except interfacing the bluetooth with firebird V which we could not accomplish due to high data rate of bluetooth and hardware of each module being unique. We tried optimal usage of memory in bluetooth but we still could not complete the task and reason still unknown.
Features and bugs: The features s explained above is easy understanding and diverse implementation of project in various applications We did not encounter and bug in zigbee communication, The bugs are in bluetooth communication where we cannot use serial terminal or other terminal but only tera term and WiFi the bug lies in the fact that data are sent as packet and in interfacing with firebird slight modification in program needs to be done which we made.
Future Work: For future we would like to the application of modules using sleep modes in order to conserve power and use in long battery life application. We would also like to find a coordinating between these modules and use them together.Also we would like to transmit voice over these modules