**Personal Details**

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**Title of Project:** Communication Module Interfacing

**Duration of the internship**: 27th May 2014 to 10th July 2014

**Summary of your contribution to the project**: About 100 words

**Project Status Report**

**Objective of the work:**  I felt that I was much weak in communication part so I need to develop .

**Scope of the work:**  To develop communication module interfacing with controller and wireless modules like X-bee, Bluetooth , Wi-Fi.

**Completion:**

* Various configurations of X-bee are discussed in detail and their configuration procedures are explained with manual, video tutorials and some application are discussed to support various modes.
* In Bluetooth command and transparent modes of operation are discussed in detail and a manual is prepared to support the discussion
* In Wi-Fi also manual is prepared to support the various configurations of operation
* A separate book covering the entire feature of X-bee is developed. It will be a quick start for the beginners to learn about x-bee
* Video tutorial with a latex presentation is developed for the serial communication experiments (13a,13b,13c) in the E-Yantra DVD.

**Results and Discussion:**

We have made a clearly understandable and step by step procedural manual and video tutorial for wireless module like Bluetooth, X-beeand Wi-Fi.

**Discuss the logic behind the execution of this work.**

We had several application to support various configuration in x-bee but we could not implement the same for Wi-Fi and Bluetooth because we had acute shortage of time and some components failure

**Features & Bugs:**

* In case of X-bee almost all configurations are explained in detail, one need to go through this manual and video tutorial for easy understanding. This is extracted juice from various websites and manuals.
* In Wi-Fi and Bluetooth application are not discussed much, however various modes of configuration are explained in detail

**Bugs:** we could not extract the data sent from the Bluetooth exactly in the robot we could receive only some Garbage value

**Future Work:** As the configuration are explained in detail next phase would be to develop application incorporating the various configurations.

**References: Please cite any references, documents and software you have used in your project.**

* HC-0305\_serial\_module\_AT\_commamd\_set\_201104\_revised.pdf

http://www.linotux.ch/arduino/HC-0305\_serial\_module\_AT\_commamd\_set\_201104\_revised.pdf