FINAL YEAR PROJECT REPORT

GARMENT TRACKING AND MONITORING SYSTEM (GT&MS)

In fulfillment of the requirement
For degree of
BE (Electronics)

By

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Acknowledgments

We bow in gratitude against ALMIGHTY ALLAH for giving us wisdom and courage to work on this project. We would like to thank RAJBY Industries for their full support and cooperation regarding this project. We would like to show our gratitude especially towards Mr. Tauseef (Director Finance), Mr. Zarar (General Manager), Mr. Nadeem(Human Resource Manager) and all the staff of RAJBY Industries.

We would also like to show our heartiest gratitude to Mr. Azmat Khan our project supervisor under whose supervision we are working and making our way through the difficult path in developing of our project. Mr. Azmat Khan also provided us with the ubiquitous support in the preparation and also the project presentations. Words cannot express our sense of gratitude and profound reverence for the general encouragement, constructive criticism and valuable guidance of all those who are helping us in this project.

We would again thank ALMIGHTY ALLAH who blessed us with such knowledgeable, kind and inspirational instructors, such good facilities and an opportunity to get education from such a great institute.

Abstract

When it came to selection of our final year project, we decided to choose an industry based project, our priority was to select such a project in which we can learn more as well as get to have some practical knowledge relating to the industry. After visiting different industries and considering different industrial environment it was RAJBY Industries that got our attention.

RAJBY Industries is facing a huge problem of garment loses and there is no monitoring and record keeping of the goods manufactured in the industry. We wanted to come up with a solution to minimize/reduce these losses.

Therefore the solution was to design a system that can help us in tracking and monitoring the product by electronic means. According to the very basic solution the system consist of different sensors, basic hardware and different transceivers. The system must also have a computer/server to store and display the monitored data/result.

GT&MS use RFID technology (sensors & tags) as the basic component for garment tracking, monitoring and record keeping. These RFID will be attached with the garments. These RFID tags will be read throughout the industry by RFID sensors placed in different departments of the industry. The data from the RFID sensors will be sent to the computer through a proper network of circuits. The software on the computer will manipulate this data and displace it accordingly.

The technology used by GT&MS is way much better than using PLC as the core controller as PLC was more expensive and not very much flexible with serial data transmission. And using of RF technology is better than using bar code scanning system as RF has more range.

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