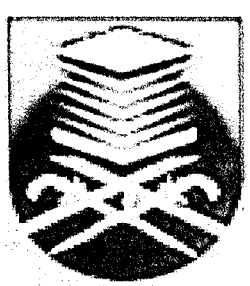
ZIGBEX WIRELESS SENSOR ACTUATOR NETWORK (WSAN) HOME ALARMING SYSTEM FOR AIR CONDITIONING

Thesis is presented in partial fulfillment for the award of the

Bachelor of Electrical Engineering (Hons.)

UNIVERSITI TEKNOLOGI MARA



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MEI 2011

ACKNOWLEDGEMENTS

In the name of ALLAH S.W.T, the Most Gracious, the Ever Merciful. It is always my deepest desire to express my gratitude for the Al-Mighty that gives me health and strength to complete this final year project. Alhamdulillah, my final year project is able to be completed within the time given and I have gain valuable experience and knowledge throughout completing this project.

Here, I would like to take this opportunity to deliver my gratitude and everlasting appreciation to my project supervisor, Miss Wan Norsyafizan Binti W. Muhamad for her guidance and dedication to me, as well as her useful advice in the process of preparation and completion of this project.

I would like also thanks to the technical paper examiners on their comments and advices for my technical paper presentation, and writing up the final report. Apart from that, special thanks to my beloved mother Puan Hasiah Binti Hussen and my father Mr Ismail Bin Yusof for their prayers and special encouragement to me all the time in order to complete this final year project.

Last but not least, thanks to all my friends and other people, who had already contributed a lot of suggestion and assistance in completion this project. Honestly, I am very grateful for all the support and kindness, thank you.

ABSTRACT

This project present the application of zigbex wireless sensor or actuator network (WSAN) home alarming system for air conditioning. The main aim of this project is to implement a WSAN for air conditioning system that based on temperature. Measurements level of temperature give information to consumer about air conditioning condition. The sensor node will sense the level of temperature and sends the data to the base node and actuator node. The results were display on the oscilloscope Graphical User Interface (GUI) whereas the actuator node would activate the alarm. This project applied the temperature/humidity sensor that could be used as main component or part for the system to operate. The sensor is controlled by zigbex and its program by NesC coding program. It can be concluded that air conditioning can be controlled wirelessly using zigbex WSAN test-bed.

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