



North South University

Department of Electrical and Computer Engineering

Senior Project Design Report

EEE 499

[DTMF BASED LOAD AND APPLIANCE CONTROL SYSTEM]

Submitted To :

Abu Obaidah

Lecturer, Department of Electrical and Computer Engineering,

North South University

Submitted By :

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Declaration

This is to certify that this project report is my original work and No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Declared By :

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Approval

Beahter Fahid - ID 1812293643, Mahi Barkatullah - ID 1812049643 and Md Sazzad Hossan - ID 1812194643 from Electrical and Computer Engineering Department of North South University, have done the senior project on “DTMF Based Load and Appliance Control System” under the supervision of Abu Obaidah partial fulfillment of the requirement for the degree of Bachelor of Science in Engineering and has been accepted as satisfactory.

Supervisor’s Signature

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Abu Obaidah

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Chairman’s Signature

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Professor Rajesh Palit

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ACKNOWLEDGEMENT

We would like to convey our warm thanks to North-South University (NSU) for the opportunity of carrying out this senior project design part of our EEE course. We are particularly grateful to our project supervisor Abu Obaidah, Lecturer of ECE department of North South University for his kind guidance, understanding and inspiration. During this project, we got an opportunity to learn different engineering knowledge related to DTMF, microcontroller, coding, Power and distribution. We consider ourselves lucky to become a part of this project. We give our ample time and dedication to achieve knowledge during this period.

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ABSTRACT

point of this undertaking is to foster a home robotization framework that can be controlled from a distance utilizing a cell phone. Home robotization is one of the most arising patterns in the modernization of home apparatus control. As of now, regular wall switches are situated in various pieces of the house and one needs to truly go close to them and press them to turn the loads on/off. It turns out to be truly challenging for the old or actually debilitated individuals to do so. One more benefit of this venture is that sometimes we neglect to turn off the home machines and by this DTMF-based home computerization framework we can turn them on or off from any region of the planet. This framework is intended to give control of home apparatuses through cell phones by dialing the assigned number. Dialing should be possible from the home telephone or a call made to the number from outside. This framework is planned by ARDUINO UNO however depends on computerized rationale utilizing DTMF innovation (Dual Tone different recurrence) which gets the order from the telephone to foster computerized yield. This computerized signal is additionally handled to incite changing components through a hand-off driver to turn on/off the heaps/machines. It tends to be utilized to change machines from any place, conquering the restricted scope of other infrared and radio recurrence type controls. This proposed framework provides another guidance to the advancement of home computerization.