# Certification

I hereby declare that this work was researched, written and compiled by me,

Nwanze Franklin Chuka, with registration number 2011364033 of Electronic and Computer Engineering, Nnamdi Azikiwe University, Awka.

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Nwanze Franklin. C

# Approval Page

This is to certify that this seminar work has been approved and is sufficient in scope and content in accordance with the stipulated regulations as required in partial fulfillment for the award of Bachelor of Engineering (B.Eng.) , Department of Electronic And Computer Engineering, Nnamdi Azikiwe University, Awka, Anambra State.

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Dr Nnebe date

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Prof C.C Okezie date

# Dedication

I dedicate this work to the Almighty God for his inspiration, mercy, protection and wisdom which is all that has kept me in every second of my five year stay in this University.

**Acknowledgement**

My heartfelt gratitude to my project supervisor Dr. Nnebe S.U for her support and encouragement throughout this research work.

I am also indebted to the entire academic staff of department of Electronic and Computer Engineering for their academic support. Surely they gave me a good platform on which to build. Special thanks to my software lecturers Prof. Inyiama, Dr. Adrian, Dr. Tony, and Engr. Azubuike who has in one way or another opened my eyes to the real world of software Engineering.

I wish to acknowledge my parents for their support and encouragement so far in all my endeavors. The fact that I know they have got my back is enough driving force.

Finally, to my colleagues who started this journey with me and have immensely contributed to my academic improvement I say thanks and God bless.

**Abstract**

This work is basically aimed at designing and implementing Radio Frequency remote control with specific functionalities. These functionalities are implemented by following certain processes like Manchester encoding and decoding, noise filtering, Redundancy checks, synchronization and action initiation.