

FINAL YEAR PROJECT REPORT

Electronic Toll collection system using RFID



Project Advisor
Sir Hassan Tariq

Submitted by

Ali Raza	101519074
Adnan Mubarek	101519080
Ali Ahmad Afzal	101519094

**DEPARTMENT OF ELECTRICAL ENGINEERING
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UNIVERSITY OF MANAGEMENT AND TECHNOLOGY**

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Ali Raza	101519074
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Project Advisor _____ **Director Projects** _____

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Declaration

We declare that this thesis was composed without plagiarism and work contained here is our own basic theory that we studied from literature and adapted it in our own words with references and this work has not been submitted for any other degree or professional qualification

Project Advisor
Sir. Hassan Tariq

Members

Ali Raza

Adnan Mubarek

Ali Ahmad Afzal

Dedication

This project is dedicated to our parents whose help has
Been instrumental for the completion of this project.

ACKNOWLEDGEMENTS

In the name of ALLAH, who is the most merciful, the most compassionate; the one and only supreme power, the one whose will makes everything possible, and the one without whose will the simplest is impossible.

All thanks to our beloved Family members for their prayers, guidance, support and care. They dreamed for our future and advised us to work hard to fulfill their dreams. Without their financial support it would not have been possible for us to become supreme professionals. Actually we can't express those thanks through just a bunch of words.

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Abstract

The electronic toll collection system (ETC) focuses on collection of toll fee by using radio frequency identification (RFID) technology. In this system every vehicle will hold a RFID transmitter on the wind shield which will send a particular identification number (Assigned by the traffic authorities) to the receiver. Whenever the vehicle pass through the toll booth the reader placed there will receive that particular ID, and will check the data base for registration and balance against that ID, deduct the fixed tax amount, update the balance, show it on screen and lift the barrier. In case of no balance the barrier will not be lifted.

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