IMPLEMENTATION

OF

**AUTOMATIC RAILWAY GATE CONTROL SYSTEM**

PROJECT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

**APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING**

Submitted By

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**COLLEGE OF ENGINEERING ROORKEE**

Dec 2012

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**DECLARATION**

We hereby certify that the work which is being presented in this project titled “**Automatic Railway Gate Control System**” by “**Neha Wadhwa**” and “**Geeta Sharma**” in partial fulfilment of requirements for the award of degree of B.Tech (Applied Electronics and Instrumentation) submitted in the department of Electronics and Telecommunication at College of Engineering Roorkee (COER), Roorkee affiliated to Uttarakhand Technical University, Dehradun is an authentic record of our work carried out during a period of Aug 2012 to Dec 2012, under the supervision of Divya Arora. The matter presented in this thesis has not been submitted by any of us in any other University /Institute for the award of B.Tech degree.

**Neha Wadhwa**

**Geeta Sharma**

This is to certify that the above statement made by the candidates is correct to the best of my/our knowledge.

The B.Tech viva-voce examination of Neha Wadhwa and Geeta Sharma has been held on and accepted.

**B.D.Patel Divya Arora**

**(H.O.D)**  **(Project guide)**

# ABSTRACT

Our project “Automatic Railway Gate Control” deals with automatic railway gate operation which comprises of an automatic railway gate at a railway crossing replacing the gates operated by the gatekeepers. The circuit developed in the work provides safety to road users by employing the automatic gate control at the railway line crossing once the arrival of the train is detected by the sensors placed near the gate. Since the operation is automatic, the error due to manual operation can be prevented.

# ACKNOWLEDGEMENT

The present work on **“Automatic Railway Gate Control System”** was undertaken as a part of preliminary completion of final year project (at the end of seventh semester), under the guidance of **B.D. Patel, H.O.D, Applied Electronics and Instrumentation Engineering, COER** at College of Engineering Roorkee, Roorkee, Haridwar, Uttarakhand.

During this process valuable information was gathered, which will hopefully be the basis for any future work on the automatic gate control or similar work. We wish to express our gratitude to our H.O.D., B.D. Patel and our guide Divya Arora, who gave us this wonderful opportunity to learn so much and placed their faith in our abilities. We hope that our work has lived up to their expectations and will be of help in future endeavors taken upon this topic.

Neha Wadhwa

Geeta Sharma

# 

**CERTIFICATE**

This is to certify that Neha Wadhwa (09060106027) & Geeta Sharma (060060106002), student of B.TECH in Applied Electronics & Instrumentation Engineering at COLLEGE OF ENGINEERING ROORKEE, has made the minor project in their 7th semester.

They have successfully completed their minor project on **“Automatic Railway Gate Control System”.**

They were found to be sincere and diligent in their work.

**( B.D.Patel) (Divya Arora)**

**H.O.D**  **Project guide**

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