CV - ANURAG LAMBOR

CAREER OBJECTIVE : I'm looking forward to work in the field of research and development and use my knowledge for the betterment of the society.

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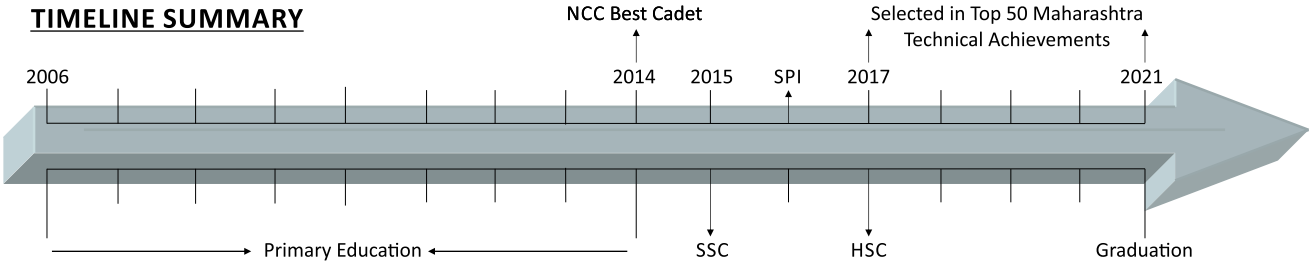
TIMELINE SUMMARY



EDUCATIONAL DETAILS :

Duration	Examination / Degree	University Board	Institute / College	Grade / Percentage
2005-2014	Primary and High School Education	Maharashtra Board	Sadhana High-School, Gadhinglaj	A+
2014	NCC 'A' Certificate	56 MH - BN NCC Kolhapur	-	A
2015	SSC (Matriculation) Certification	SSC Maharashtra Board	Sadhana High-School, Gadhinglaj	90%
2015	SPI	-	SPI Aurangabad	Top 5

F. E. Achievements 2017-18 **S.E. : Electrical**

Sr. No.	Competition	Organiser	Date	Rank
1)	International Society of Automation State Level Project Competition.	ISA Pune	5 Apr. 2018	2nd
2)	National level Project Competition	PCCOE Pune	4 Feb. 2018	1st
3)	IIGP - 2.0	DTE	10-20 Jan. 2018	National Qualifier
4)	NPTEL	IITM	Feb.- Mar. 2018	92%
5)	Certificate of Recognition	AISSMS COE	26 June 2018	-
6)	Patent 1 - "Automatic Gate Operating Device"		02 Apr. 2018	Published
7)	Patent 2 - "Vaporized Gasoline Fuel"		02 Apr. 2018	Published

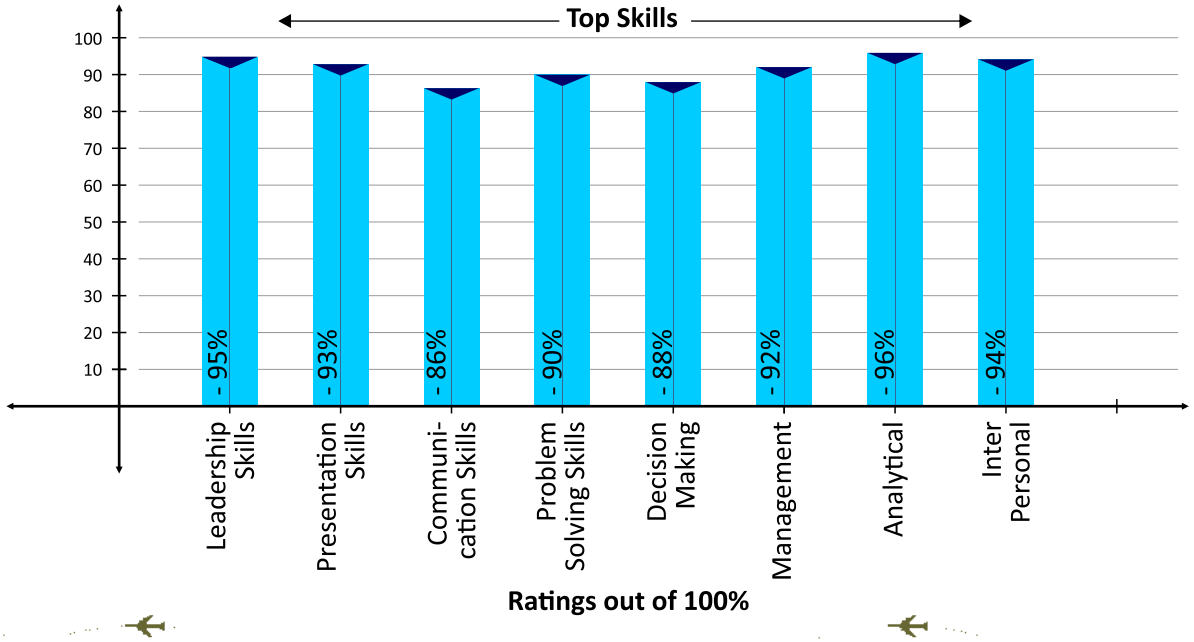
F. E. Achievements 2017-18

Sr. No.	Competition	Organiser	Rank
1)	SSI2 - TEEE International Project Competition	IEEE	3rd
2)	IICDC	DST	National Qualifier
3)	Technical Paper Presentation	AISSMS COE	1st Rank
4)	Technical Paper Presentation	IFI (Kolkata)	Best Paper award for Electrical Engineering Background
5)	ICDCIT - International Conference	KIIT (Bhubaneshwar) ODISHA	Best Paper award for Smart computing and Internet of Things
6)	Project Innovation Contest	KIIT (Bhubaneshwar) ODISHA	1st Rank
7)	Smart Sociothon	VIIT, Pune	Winners (1st Rank)
8)	National Journal Publication	ISBN : 978-81-924990-6-2	
9)	International Journal Publication	ISBN : 978-93-5346-080-8	
10)	PROJECTS2K19 By IEEE	MMCOE , Pune	1 st Rank

ACHIEVEMENTS :

1) Best Cadet Certificate in NCC.
2) Selection in SPI Aurangabad Top 50 in State.
3) Meritious achievements in MTS, NTS, 200 and other Scholarship exams.
4) Selection in Maths - Praveen and Pravianya a State level Maths Olympiad.

TECHNICAL DETAILS :



PATIENT NO. 1

i) Development of an Automatic Gate Operating Device :

This invention is the solution of number of accidental problems in transportation especially in railways and junction roadways. A circuit is designed to control the operation of railway gates automatically as well as manually. Large number of people use railway as their primary source of transport hence the safety of this transport comes first into account. Keeping this into mind this invention is designed to give maximum safety to the railway crossings using more efficient ways like electronic circuits to control the gate functioning. It comes out from a pure Electronic and Mechanical engineering background. The present warning systems in Railways are based on conductivity due to train pass which is highly insecure and leads to 60% of railway accidents each year. This automatic railway crossing circuit doesn't have chance of hack and removes all the human errors with use of certain circuits.

Objectives and summary of Invention:-

- To provide automatic safe railway crossings and any type of gate.
- To use cheap and more efficient technology to make railway gate crossing vehicles alert.
- To decrease number of human errors by using electronic circuits.
- To decrease number of the human operator, labor in opening and closing the gates.
- To decrease the switching time of gates in about micro seconds.
- To use solar energy as the main source of energy
- Building a hack free system to control the railway crossing gate and any type of gate.

PATIENT NO. 2

Patent Application No.:-201821012419 A

ii) Vapourised Gasoline Fule :-

An environment friendly and economical fuel has been innovated by using Petrol, Kerosene and Water in definite amount. The final innovated product is the vapourized fule gas (nearly octane) has pure and bright blue flame. It is very silent flame which indicates its purity. It has no byproducts and its production cost is negligible. For the application and testing purpose the fuel has been tasted on a Bunsen's burner which showed a 4 hours regular burning for 250 ml of all Petrol, Kerosene and Water respectively. The same fuel gas when used for a 150 cc IC engine, it worked for around 25 minutes before the fule got completely burnt . The engine worked continuously with very negligible knockings, smoke and CO_2 exoust . This fuel can be used in different engines, vehicles, generators, boilers, kitchen gas burner, etc. It is the best option for industrial boilers as the fuel offers very high flame temperature with its high efficiency parameters(about 72%). This fuel can be compressed and stored for longer time such as LPG, by the use of proper storing tanks. Flame temperature of gas is about 2170°C.

Objectives and summary of Invention:-

- To make a pure eco-friendly fuel.
- To make an alternative economical source of fuel.
- To make fuel more cheap and having no byproduct or extracts.
- To make high efficient fuel that can be used in IC engines, boilers, generators, burners etc.
- To reduce air pollution and water pollution

PAPER PRESENTATION :

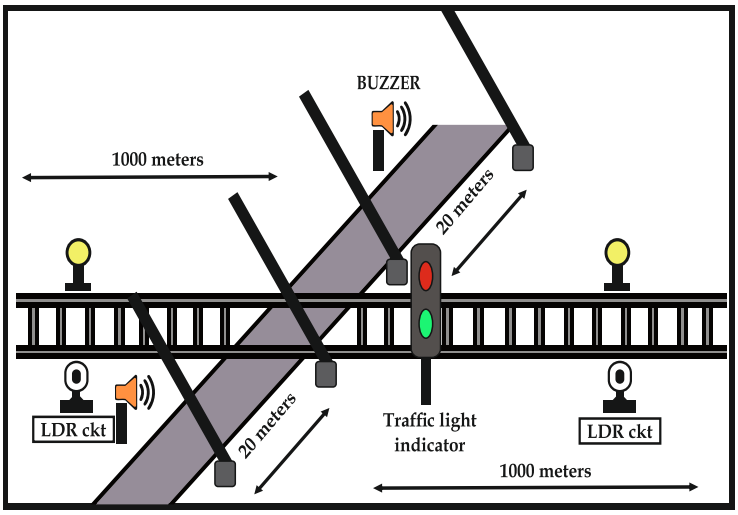
Paper Title :- DEVELOPMENT OF AUTOMATIC GATE OPERATING DEVICE .

ABSTRACT :-

Looking at the importance of safety of railway crossings this invention is focused on a safer and labor free function of railway gate. There are more than 34,000 railway crossings in India today, out of which more than 12,000 are not attained by operator. More than 60% of accidents take place at such inhumane railway gate crossings. The above problem can be solved with automatic gate operating device. In case of railway crossing gates this device would be the best option as automatic railway crossing device. This invention is on automatic railway crossing with or without human operator to execute a safer crossing function. This device is more convenient, eco friendly, reliable and efficient as this works on solar energy or just 12 V D.C supplies. Economical innovation with affordable cost of safe railway and vehicle crossing would be with only 3000 INR. The human errors are eliminated due to use of electronic circuits. The cars crossing roads are alerted two times, initially the signaling device i.e. the signals and siren gets into action which alerts drivers about the arriving train and then after a specific time the gates get closed. The timing of the gates opening and closing can be controlled using potentiometer provided in timer circuit.

Keywords: LDR circuit, Timer IC 555, Automatic railway crossing, Signaling devise, Solar panel.

Patent No: 201821012409 A - Automatic Gate Operating Device.



Patent No: 201821012409 A - Automatic Gate Operating Device

PAPER PRESENTATION :

AUTOMATED RAILWAY CROSSING WITH AUTO TRAIN SPEED CONTROL TECHNOLOGY

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Department of Electrical Engineering, AISSMS's College of Engineering, Pune
Department of Applied Physics Sadhana Junior College, Gadhinglaj
Department of Civil Engineering, AISSMS's College of Engineering, Pune
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Abstract- Looking at the importance of safety of railway crossings this invention is focused on a safer and labor free function of railway gate. There are more than 34,000 railway crossings in India today, out of which more than 12,000 are not attained by operator. More than 60% of accidents take place at such inhumane railway gate crossings. The above problem can be solved with automatic gate operating device. In case of railway crossing gates this device would be the best option as automatic railway crossing device. This invention is on automatic railway crossing with or without human operator to execute a safer crossing function. This device is more convenient, eco friendly, reliable and efficient as this works on solar energy or just 12 V D.C supplies. Economical innovation with affordable cost of safe railway and vehicle crossing would be with only 3000 INR. The human errors are eliminated due to use of electronic circuits. The cars crossing roads are alerted two times, initially the signaling device i.e. the signals and siren gets into action which alerts drivers about the arriving train and then after a specific time the gates get closed. The timing of the gates opening and closing can be controlled using potentiometer provided in timer circuit.

Index Terms- Automatic Railway Crossing, Auto Speed Control using IR Circuit, LDR circuit, Reed Switch, Signaling device, Solar panel, Timer IC 555

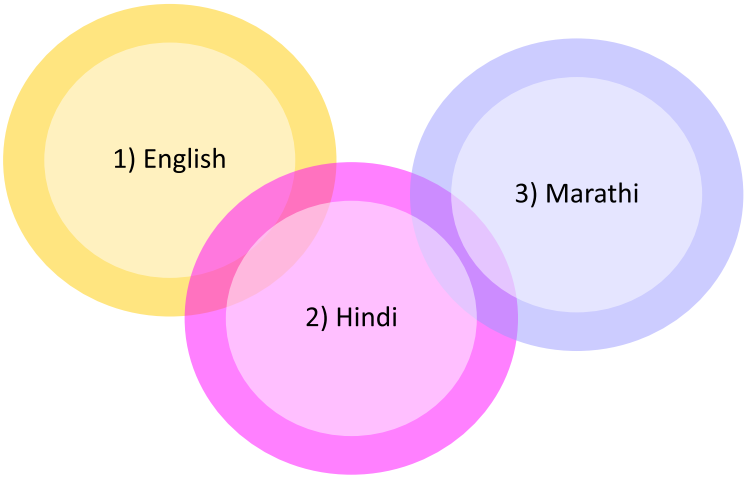
I. INTRODUCTION

The present invention is automatic gate operating device and can be deal with auto functioning and controlling the crossing gates. This is the perfect automatic gate operating device with respect to the railway crossing gates which provides easy and safe passing of railways and vehicles on roadways. In this the combination of two different circuits is innovated and working of these circuits is driven by solar panel or 12V D.C supply before arrival of train near railway crossing. The first circuit is LDR (Light Dependent Resistor) working as a Sensor, the change in intensity of light falling on it used to sense [1-4]. This ability of LDR is used to control gates near railway crossings. Further the LDR is connected to a timer IC (Integrated Circuit) for the sake of controlling the output timing. Whenever the LDR circuit gives high output, the output is kept constant (i.e high) till the timing set in timer circuit. When no train is passing, LDR output is low and timer also remains in off state. The controlling unit in timer circuit is the potentiometer of 7 k&!. As the resistance of Potentiometer is increased the time for which LDR output remains high will be more and vice versa.

AWARDS :

1) Best Paper Award in Electrical and Electronics engineering domain. (Nov. 2018) IEI Kolkata
2) Best Paper Award in Conference on Smart Computing and Internet of Things organized by KIIT
3) Recognition as a Meritious from AISSMS Premier Group of of Institutions.
4) Best Cadet Award from 56 MH-BN-NCC Kolhapur.
5) Many Awards at College and school levels in Paper Presentations, Speech Competitions, Essay and Poem writing competition.

LANGUAGE PROFICIENCIES :



COURSES AND INTERNSHIPS :

1) NPTEL Course on - Analog Circuits
2) NPTEL Course on - Basic Electrical Engineering
3) Intern at 'Scholar' as a Physics Subject Expert.

KNOWLAGED IN :

1) Basic Microcontrollers Programming
2) Applied Physics and Chemistry.
3) Astronomy and Research in planatory objects.
4) Space Physics, Black holes, White holes etc.
5) Circuit design developing and building.
6) Research and development.
7) Project design and development with application.

EXPERTISED DEPARTMENT

Electrical and Electronics Department.

INTEREST :

1) Electronic Circuit building and testing.
2) Project prototype making.
3) Reading and understanding new concepts.
4) Cycling and swimming.
5) Research and problem solving.

DECLARATION :

I hereby declare that all the above details
are true and confidential according
two my knowledge.
(Technically 1 : 1)

KNOWLEDGE IN :

1) Basic Microcontrollers Programming.
2) Applied Physics and Chemistry.
3) Astronomy and Research in planatory objects.
4) Space Physics, Blackholes, White holes etc.
5) Circuit design developing and building.
6) Research and development.
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