



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

FOUNDER CHANCELLOR
Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

Accredited by NAAC With 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur
Near Chitranagari, Kolhapur - 416013 (MS)

DTE INSTITUTE CODE : EN-6288
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050

Web : <http://coekolhapur.bharativedyapeeth.edu> E-mail : coekolhapur@bharativedyapeeth.edu

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

NAAC SSR CYCLE- 2



Criterion 3	Research, Innovations and Extension
Key Indicator 3.1	Resource Mobilization for Research
3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)	

Grants received for Academic Year: 2017-18



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Sr. No.	Name of the research project/ endowment	Name of the Principal Investigator/ Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned (INR in Lakhs)	Page Number
1	Project: Underwater Robot Using Raspberry - Pi	Ms. A. H. Tirmare	Electronics and Telecommunication Engineering	2017-18	0.10	4
2	Patent: Intelligent Coin Separator	Mr. Kedar K. Patil	Mechanical Engineering	2017-18	0.09	6
3	Project: Intelligent Modular Robot Vehicle for Defense and Disaster management	Mr. V. T. Didake	Mechanical Engineering	2017-18	0.21	7
4	Project: Design Development and Testing of Variables Damping Suspension System	Mr. M. S. Kulkarni	Mechanical Engineering	2017-18	0.35	12

5	Project: Human Powered Forklift	Mr. S. P. Jarag	Mechanical Engineering	2017-18	0.12	16
6	Project: Groundnut Pods Separator & Cutter	Mr. S. B. Kamble	Mechanical Engineering	2017-18	0.14	20
7	Project: Design and Development of all-Terrain Vehicle	Mr. S. P. Jarag	Mechanical Engineering	2017-18	0.70	24
8	Project: Automatic Braking System & Fuel Flow Measurement Device	Mr. M. S. Kulakarni	Mechanical Engineering	2017-18	0.25	28
9	Project: Detecting Experts on Quora	Mr. S.B.Patil	Computer Science and Engineering	2017-18	0.25	33
10	Project: Mobimed The Health Assistant	Mr. S. B. Takmare	Computer Science and Engineering	2017-18	0.15	39
11	Project: Automation For Toll Collection and Vehicle Security	Mr. S.U. Kadam	Computer Science and Engineering	2017-18	0.30	46
12	Project: Hand Motion Crane Control System	Mr. Veeresh PM	Electronics and Telecommunication Engineering	2017-18	0.27	51
	Total				2.93	

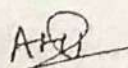
RESEARCH SENSITIZATION SCHEME FOR COLLEGE STUDENTS

Application for the financial support to research project

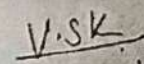
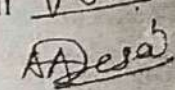
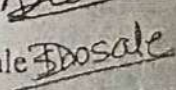
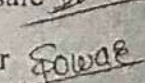
(to be submitted to the Lead college)

1.	Name of the college/Institute	Bharati Vidyapeeth's College of engineering, Kolhapur.
2.	Names of the students (upto four)	i)Mr. Vishwajeet Koli. ii)Mr. Aniket Desai. iii)Miss.Devayani Bhosale. iv)Miss. Swarupa Powar.
3.	Title of the project	"UNDERWATER ROBOT USING RASPBERRY-PI"
4.	Area of research project/subject	ROBOTICS
5.	Details of the research project	To be attached on separate pages
	i)Problems and it's importance	
	ii)Objectives	
	iii)Methodology	
	iv)Projected output-	
	v)Financial requirements(up to Rs.10000/-)	Rs. 9800/-
6.	Any other information,if any	To be attached on separate page(s)

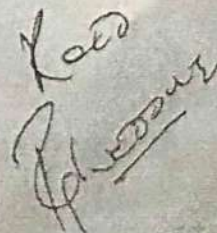
Name and signature of the project advisor


PROF. A.H.TIRMARE

Names and signature of students

i)Mr.Vishwajeet Koli 
ii)Mr.Aniket Desai 
iii)Miss.Devayani Bhosale 
iv)Miss.Swarupa Powar 

Forwarded through Principal/Directors



01-Aug-18 12:48:23PM



PMC BANK

PUNJAB & MAHARASHTRA CO-OPERATIVE BANK LIMITED
MULTI-STATE SCHEDULED BANKGandhi Nagar Branch: 413, 3/1A, Main Road, Gandhi Nagar
Tal. Karveer, Dist. Kolhapur-416119.
RTGS/NEFT IFSC: PMCB0000211

Payee's A/c Only

VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

1	3	0	2	2	0	1	9
D	D	M	M	Y	Y	Y	Y

Pay Principal, Bharati Vidyapeeth's College of Engineering, Kolhapur
या धारक को Or Bearer

रुपये Rupees Ten thousand Only

अदा करें।

₹ 10,000/-

A/c.No. 211100100000225

For KIT'S COLL.OF ENGG. KOLHAPUR

SECRETARY V.CHAIRMAN CHAIRMAN

Please sign above this line

Payable at Par at all CBS Branches

⑈006526⑈ 416328007⑈ 000014⑈ 10



PMC BANK

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MULTI-STATE SCHEDULED BANKGandhi Nagar Branch: 413, 3/1A, Main Road, Gandhi Nagar
Tal. Karveer, Dist. Kolhapur-416119.
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1	3	0	2	2	0	1	9
D	D	M	M	Y	Y	Y	Y

Pay Principal Bharati Vidyapeeth's College of Engineering Kolhapur
या धारक को Or Bearer

रुपये Rupees Ten thousand Only

अदा करें।

₹ 10,000/-

A/c.No. 211100100000225

For KIT'S COLL.OF ENGG. KOLHAPUR

SECRETARY V.CHAIRMAN CHAIRMAN

Please sign above this line

Payable at Par at all CBS Branches

⑈006534⑈ 416328007⑈ 000014⑈ 10

ndus

PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
S.M. Road, Astor Hill, Mumbai-400 037
Te No. (091)(022) 24137701, 24141026 FAX No. 02 24130387
E-mail : mumbai-patent@nic.in
Web Site : www.ipindia.gov.in



Docket NO : 47576
To
BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR
NEAR CHITRA NAGARI, MOREWADI, KOLHAPUR, MAHARASHTRA, INDIA - 416 013.

Date/Time : 2018/10/08 15:10:45
Agent Number:

Sr. No.	CBR Number	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid	Amount Computed
1	22529	ORDINARY APPLICATION Pages:-21 , Claims:-8, Drawings:-5, Abstract:-1, Claims pages:-1	201821038013	"INTELLIGENT COIN SEPARATOR"	8800	8800
2		E-2/2027/2018-MUM	201821038013	Form2	0	0
3		E-3/12279/2018-MUM	201821038013	Form3	0	0
4		E-5/1637/2018-MUM	201821038013	Form5	0	0
Total Amount					8800	8800

Received a sum of Rs. 8800 (Rupees Eight Thousand Eight Hundred only) as under

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	—	—	—	8800

Note: This is electronically generated receipt hence no signature required.

A
PROJECT REPORT
ON,
**“INTELLIGENT MODULAR ROBOTIC VEHICLE FOR
DEFENSE AND DISASTER MANAGEMENT”**

Submitted to,
SHIVAJI UNIVERSITY, KOLHAPUR
In partial fulfillment of degree of
BACHELOR OF MECHANICAL ENGINEERING

Submitted by,
Miss. Vibhute Amruta S.
Miss. Jadhav Tejaswini S
Mr. Kadam Manik H.
Mr. Jadhav Vaibhav B.
Mr. Jadhav Somesh S.
Under the Guidance of,
Asst. Prof. V. T. DIDAKE

DEPARTMENT OF MECHANICAL ENGINEERING



**BHARATI VIDYAPEETH'S COLLEGE OF
ENGINEERING,
KOLHAPUR.**

(2017-18)

**BIHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the following students of B.E. (Mechanical) class,

Miss. Vibhute Amruta S.

Miss. Jadhav Tejaswini S

Mr. Kadam Manik H.

Mr. Jadhav Vaibhav B.

Mr. Jadhav Somesh S.

Have satisfactorily completed the project entitled **"Intelligent Modular Robotic Vehicle for Defense and Disaster Management"** during the academic year 2017-18 in partial fulfillment of the requirement for **"BACHELOR OF MECHANICAL ENGINEERING"** Degree of SHIVAJI UNIVERSITY, KOLHAPUR.

Asst. Prof. V. T. Didake

Project Guide

Prof. R. S. Mithari

Project coordinator

Prof. S. J. Kadam

Head of Department

(External Examiner)

Dr. V. R. Ghorpade

Principal



**ROBOSAP INNOVATIONS
PRIVATE LIMITED**
Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, IOT, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, Raspberry Pi and Automation Equipments

**Manufacturers and Dealers in Robotic Kits, CNC's,
3D Printing, IOT, Quadcopters and Aeromodelling
Electronic Components, Microcontroller Kits,
Raspberry Pi and Automation Equipments**

REF No: R&D/SIN/15-16/017

Date: 15/11/18

SPONSORSHIP LETTER

This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyapeeth's College Of Engineering, Kolhapur are sponsored for following project in our organization for the academic year 2017-2018.

Title of the project: "Intelligent Modular Robotic Vehicle for Defense and Disaster Management"

Sl. no	Name
1)	Vaibhav Bhausahab Jadhav
2)	Manik Hanamant Kadam
3)	Amruta Shivling Vibhute
4)	Tejaswini Shahaji Jadhav
5)	Somesh Satish Jadhav

Terms and conditions:

- 1) Students are expected to work sincerely and regularly on the project to complete the same in stipulated time
- 2) All the required facilities and equipments to carry out the project work would be provided by robosap.com.

Rohit Kadam
Managing Director
Seal and Signature
15/11/18



**ROBOSAP
LIMITED**

Manufacturers and Dealers in Robotics Kits, CNC, 3D Printing, IoT, Quadcopters and Aeromodelling
Electronic Components, Microcontroller Kits
Raspberry Pi and Automation Equipments

(Date: _____)

To,

Head of Department,

Mechanical Engineering,

B.V.C.O.E. KOLHAPUR,

Sub: Cost estimation letter for sponsored project INTELLIGENT MODULAR ROBOTIC VEHICLE FOR DEFENSE AND DISASTER MANAGEMENT

Dear Sir,

This is reference to your letter. We are pleased to accept your letter and provide permission for doing project. As per the policy we provide good resource and material for successful completion of project.

Sr. No.	Resources/Material	Cost
1	Components	18980
2	Fabrication	1500
3	Other Expenses	1000
	Total	21480

We hereby approved application from student and further activities of below mention students from department of mechanical. The names of students are;

1. MANIK HANAMANT KADAM
2. SOMESH SATISH JADHAV
3. VAIBHAV BHUSAHEB JADHAV
4. TEJASWINI SHAHAJI JADHAV
5. AMRUTA SHIVLING VIBHUTE

Robosap Innovations Private Limited
Kadam
Managing Director

Director

Seal and Signature



**ROBOSAP INNOVATIONS
PRIVATE LIMITED**

Education and Innovation with Ethics and Integrity

Manufacturers and Dealers in Robotic Kits, CNC's,
3D Printing, IOT, Quadcopters and Aeromodelling
Electronic Components, Microcontroller Kits,
Raspberry Pi and Automation Equipments

REF No: ROB/FIN/17-18/038

Date: 21/3/18

To,
Head Of Department,
Mechanical Engineering
B.V.C.O.E, Kolhapur

Subject: Certificate of Completion of Project

This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyapeeth's College Of Engineering, Kolhapur have completed the project titled "Intelligent Modular Robotic Vehicle for Defense and Disaster Management" in stipulated time with satisfactory performance.

Sl. no	Name
1)	Vaibhav Bhausheb Jadhav
2)	Manik Hanamant Kadam
3)	Amruta Shivling Vibhute
4)	Tejaswini Shahaji Jadhav
5)	Somesh Satish Jadhav

Robosap Innovations Private Limited
Managing Director

[Signature]
21/3/18

Seal and Signature

A
PROJECT REPORT
ON

**“DESIGN, DEVELOPMENT AND TESTING OF VARIABLE
DAMPING SUSPENSION SYSTEM”**

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Sawant Ashish Babaso.

Mr. Kale Manik Ravindra.

Mr. Mali Ashish Subhash.

Mr. Shinde Akshaykumar Anandrao.

Mr. Rajgolikar Dhruwankur Govind.

Under the Guidance of

Prof.M. S. Kulkarni.

DEPARTMENT OF MECHANICAL ENGINEERING



**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

(2017-18)

**BHARATI VIDYAPEETH'S COLLEGE OF
ENGINEERING, KOLHAPUR.**

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the project report entitled **DESIGN, DEVELOPMENT AND TESTING OF VARIABLE DAMPING SUSPENSION SYSTEM** In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.

Prof. M. S. Kulkarni

Project Guide

02/04/2018

Prof. R. S. Mithari

Project Coordinator

Prof. S. J. Kadam

(Head of Department)

Dr. V. R. Ghorpade

Principal

(External Examiner)



**A-TECH
ENGINEERING**

565/2, Behind Kolhapur Aret, M. T. D. C., Shirohi (P), Kolhapur - 416 122 Mob: 9922497859

Pet. No. 116

Date 15.01.2018

To,

Head of Department,

Dept. of Mechanical Engineering,

B. V. C. O. T., Kolhapur,

Sub: Approval letter to sponsor project "DESIGN, DEVELOPMENT AND TESTING OF VARIABLE DAMPING SUSPENSION SYSTEM"

Respected Sir,

This is reference to your letter, we are pleased to accept your letter and provide permission for doing project at our concern for the period of 11th August 2017 to 15th March 2018. As per the policy we will provide good resource and material for successful completion of project. We hereby approved the application from students for further activities of below mentioned students from Department of Mechanical Engineering B. V. C. O. T., Kolhapur

Name of Project Guide and students are:-

Project Guide: Prof. M. S. Kulkarni,

Project Member

Kale Manik Ravindra

Sawant Ashish Babasa

Shinde Akshaykumar A

Mah Ashish Subhash

Rajgohkar Dhruwankur Govind

We are wishing them "ALL THE BEST" to start the project.

Link



A-TECH ENGINEERING

595/2, Behind Kolhapur Axel, M. I. D. C., Shiroli (P), Kolhapur - 416 122. Mob.: 9922497859

Ref No. 116

Date: 15.03.2018

To:

Head of Department,

Dept. of Mechanical Engineering,

B.V.C.O.E., Kolhapur.

Sub: Expenditure letter for project "Design, Development and Testing of Variable Damping Suspension System".

Respected Sir,

This is reference to the above mentioned project related estimated cost. We already permitted for doing at our concern for the period of 15th Jan 2018 to 15th March 2018. As per the policy we have provided good resource and material for successful completion of project.

Sr.No.	Resources Material cost	Amount in RS
1	Raw Material	10800
2	Machining Cost	8299
3	Fabrication	1900
4	Assembly	1400
5	Brush work	900
6	Motor 2	2450
7	Piston Seal 1	610
8	Bearings 5	2600
9	Spring 1	800
10	Linear Slide 1	5400
	Total	34960

Project Member- Kule Manik Ravindra

Sawant Ashish Babasa

Mali Ashish Subhash

Shinde Akshaykumar A.

Rajgopal kar Dhanwankar Govind

Handwritten signature

A
FINAL PROJECT REPORT
ON

"HUMAN POWERED FORKLIFT"

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Toraskar Rahul R.

Mr. Vangutte Onkar V.

Mr. Patil Onkar C.

Miss. Rakshe Sujata S.

Miss. Kadam Jyoti Y.

Under the Guidance of

Prof. S. P. JARAG

DEPARTMENT OF MECHANICAL ENGINEERING



**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

(2017-18)

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the final project report entitled

“HUMAN POWERED FORKLIFT”

Is a bonafide work of Mr. Toraskar Rahul R, Mr. Vangutte Onkar V, Mr. Patil Onkar C, Miss. Rakshe Sujata S, Miss. Kadam Jyoti Y. In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.

Prof. S. P. Jarag

Project Guide

Prof. R. S. Mithari

Project Coordinator

Prof. S. J. Kadam
(Head of Department)

(External Examiner)

Dr. V. R. Ghorpade
Principal

VARSHA INDUSTRIES

ALL TYPES OF PRECISION ENGINEERING WORKS

A-160, Five star midc ,Kagal.Tal-hatkanagle, Dist-kolhapur.

Email:-Varsha.kagal@gmail.com. Mobile:-8698846487.

DATE: 10/07/2017

REF:VI-2017-18-243

LETTER OF SPONSORSHIP

Concern to,

Student Name- 1) Mr. Toraskar Rahul Rajaram.

2) Mr. Vangutte Onkar Vijay

3) Mr. Patil Onkar Chitranjan

4) Miss Rakshe Sujata Sanjay

5) Miss Kadam Jyoti Yashwant

College Name : Bharti Vidyapeeth's College of Engineering,Kolhapur

Project Title "Human Powered Forklift"

I am very glad to agree that I am going to sponsor above student's project which is very impressive and useful to material handling equipment sector.

If you have any queries feel free to contact me.

Thanks & Regard.

SEAL


M/s. Varsha Industries
Plot No. A/160 Kagal-Hatkanangale
Five Star M.I.D.C. Kagal.

COST ESTIMATION

SR.NO.	MATERIAL	QTY.	COST
1.	Chain Sprocket	2	800
2.	Chain	1	500
3.	M.S. Plate(5*25)	1	750
4.	Sheet(base)	1	750
5.	Fabrication	1	2000
6.	Machining +colouring		1500
7.	M.S. Rod	1	500
8.	Fasteners		300
9.	Front wheel	2	1000
10.	Rear wheel	2	700
11.	Handles	2	400
12.	Bearing	8	1500
13.	Pulleys	2	1200
TOTAL			11900

Table no. 27

A
PROJECT REPORT
ON

“GROUNDNUT PODS SEPARATOR & CUTTER”

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Hankare Shubham Dilip

Mr. Kolekar Amar Vitthal

Mr. Kherade Aniket Rajendra

Mr. Kumbhar Omkar Dattatray

Mr. Nandivale Avinash Laxman

Under the Guidance of

Prof. S.B.Kamble

DEPARTMENT OF MECHANICAL ENGINEERING



**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

(2017-18)

**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the final project report entitled

"GROUNDNUT PODS SEPARATOR & CUTTER"

Is a bonafide work of Mr. Hankare Shubham Dilip, Mr. Kolekar Amar Vitthal, Mr. Kherade Aniket Rajendra, Mr. Kumbhar Omkar Dattatray, Mr. Nandivale Avinash Laxman. In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.


Prof. S. B. Kamble

Project Guide


Prof. R. S. Mithari

Project Coordinator


Prof. S. J. Kadam
(Head of Department)


(External Examiner)


Dr. V. R. Ghorpade
Principal

Kadsiddheshwar Swamiji
काडसिध्देश्वर स्वामीजी



श्री क्षेत्र सिध्दगिरी महासंस्थान
Shree Kshetra Siddhagiri Mahasansthan

Date : 4 / 10 / 17

Principal,
Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject :- Sponsorship for final year project of engineering.

Respected Sir,

We are pleased to inform you that our organization "Kaneri Math Head Office, Kolhapur " has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects; so we have chosen the following students from your institute. We have received application for sponsorship from these students.

- 1) Hankare Shubham Dilip
- 2) Kolekar Amar Vitthal
- 3) Kherade Aniket Rajendra
- 4) Kumbhar Omkar Dattaray
- 5) Nandivale Avinash Laxman

Considering project requirements of the students, it might require huge expenses to be spent on it. After completing the project we shall consider a demonstration of the project and if it fits to our organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spent on the study materials, stationary and instruments required for establishing setup of the project.

Thanking You.



With Regards,

[Signature]
C.E.O.

Kadsiddheshwar Swamiji
काडसिधेश्वर स्वामीजी



श्री क्षेत्र सिद्धगिरी महासंस्थान
Shree Kshetra Siddhagiri Mahasansthan

Date : 29/8/2018

LETTER OF EXPENDITURE

Project Title: - "Groundnut Pods Separator and Cutter"

During the manufacturing of Groundnut Pods Separator and Cutter total

SR.NO.	MATERIAL	QTY.	COST
1.	Square pipe	1	500
2.	Shaft	4	1000
3.	Pulleys	2	1500
4.	Sheet(base)	1	500
5.	Bearing	7	2200
6.	Machining + coloring	1	1000
7.	Nut Bolt	5	60
8.	V belt	1	300
9.	Worm and worm wheel	1	1500
10.	Spoke wheel	1	400
11.	Cutter Blade	3	700
12.	Coupling	1	500
13.	Motor	1	2000
14.	Fabrication	1	2000
TOTAL		30	14160

Thanks & Regard

SEAL



A
PROJECT REPORT
ON

**“DESIGN AND DEVELOPEMENT OF ALL TERRAIN
VEHICLE”**

Submitted to

SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of

BACHELOR OF MECHANICAL ENGINEERING

Submitted by

Mr. Khot Akshay B.

Mr. Patil Gurunath S.

Mr. Patil Mohanish M.

Mr. Mahekar Kunal J.

Mr. Mahekar Vaibhav J.

Under the Guidance of

Prof. S. P. JARAG

DEPARTMENT OF MECHANICAL ENGINEERING



**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

(2017-18)

**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE




This is to certify that the final project report entitled

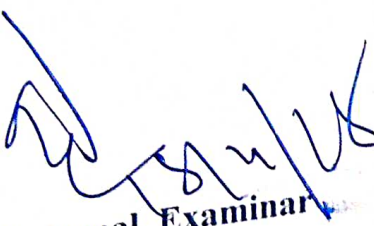
**"DESIGN AND DEVELOPEMENT OF ALL TERRAIN
VEHICLE"**

Is a bonafide work of Mr. Khot Akshay Bajrang. Mr. Patil Gurunath Sadashiv. Mr. Patil Mohanish Maruti. Mr. Mahekar Kunal Jaywant. Mr. Mahekar Vaibhav Jaywant. In the partial fulfillment of the requirements for the award of degree of bachelor of engineering in Mechanical Engineering of the Shivaji University, Kolhapur. He has carried out the work under my supervision and guidance, during academic year 2017-2018.

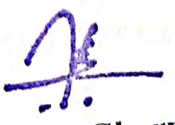

Prof. S. P. JARAG

Project Guide


Prof. S. J. Kadam
(Head of Department)


External Examiner


Prof. R. S. Mithari
Project Coordinator


Dr. V. R. Ghorpade
Principal

SHRIKANT ENGINEERING WORKS

Plot No 423/50 Panjarpol Industrial Estate Kolhapur
Agricultural Impliments & Repairing of All Type Job Works

Ref No: SEW/4235

Date 15/03/2018

To,
Head Of Department,
Mechanical Engineering,
B.V.C.O.E. KOLHAPUR.

Sub: Cost estimation letter for sponsored Project Design And Development of All Terrain
Vehicle

Dear sir,

This is reference to your letter dated on 02/08/2017. We are pleased to accept your letter and provide permission for doing project from 09/09/2017 to 27/02/2018. As per the policy we provide good resource and material for successful completion of project.

SR NO	RESOURCES/MATERIAL	COST
1	COMPONENTS	45000 +
2	FABRICATION	15000 -
3	OTHER EXPENCES	10000 -
	TOTAL	70000 +

We hereby approved application from student and further activities of below mentions students from department of mechanical. The names of students are:

AKSHAY BAJRANG KHOT
KUNAL JAYWANT MAHEKAR
VAIBHAV JAYWANT MAHEKAR
MOHANISH MARUTI PATIL
GURUNATH SADASHIV PATIL

We are wishing you for the project.

Shrikant Engineering Works

(Signature)
Proprietor

SHRIKANT ENGINEERING WORKS

Proprieter

(Mr. Amit Sutar)

SHRIKANT ENGINEERING WORKS

Plot No 423/50 Panjarpol Industrial Estate Kolhapur
Agricultural Impilments & Repairing of All Type Job Works

Ref No. SEW/42350

Date: 30/2/2018

To,
Head Of Department,
Mechanical Engineering,
B.V.C.O.E. KOLHAPUR.

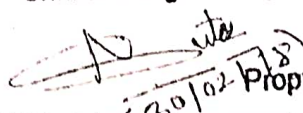
Sub: Certificate of Completion of Project.

This is certify that the following final year engineering students of B.E. MECHANICAL course of "Bharati Vidyapeeth College of Engineering, Kolhapur" has successfully completed the project in given time period.

TITLE- Design And Development of All Terrain Vehicle.

The names of students are:

AKSHAY BAJRANG KHOT
KUNAL JAYWANT MAHEKAR
VAIBHAV JAYWANT MAHEKAR
MOHANISH MARUTI PATIL
GURUNATH SADASHIV PATIL

Shrikant Engineering Works

SHRIKANT (ENGINEERING WORKS)
Proprietor
(Mr. Amit Sutar)

A
PROJECT REPORT
ON
“AUTOMATIC BRAKING SYSTEM & FUEL FLOW
MEASUREMENT DEVICE”

Submitted to
SHIVAJI UNIVERSITY, KOLHAPUR

In partial fulfillment of degree of
BACHELOR OF MECHANICAL ENGINEERING

Submitted by,

Mr. Pawar Sachin Balasaheb.

Mr. Patil Dnyaneshwar Sahebrao.

Mr. Rawool Nitesh Narayan.

Mr. Agalave Dhuladev Raghavendra.

Mr. Sarak Ramchandra Gorakh.

Under the Guidance of

Asst. Prof. M.S.Kulkarni

DEPARTMENT OF MECHANICAL ENGINEERING



**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

(2017-18)

**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING,
KOLHAPUR.**

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE



This is to certify that the following students of B.E. (Mechanical) class,

Mr. Pawar Sachin Balasaheb.

Mr. Patil Dnyaneshwar Sahebrao.

Mr. Rawool Nitesh Narayan.

Mr. Agalave Dhuladev Raghavendra.

Mr. Sarak Ramchandra Gorakh.

Have satisfactorily completed the project entitled "AUTOMATIC BRAKING SYSTEM & FUEL FLOW MEASUREMENT DEVICE" during the academic year 2017-18 in partial fulfillment of the requirement for "BACHELOR OF DEGREE OF MECHANICAL ENGINEERING" Examination of SHIVAJI UNIVERSITY, KOLHAPUR. The matter presented in this report has not been submitted for award of any other degree or diploma to the best of my knowledge.

Prof. M.S. Kulkarni

Project Guide

Prof. R. S. Mithari

Project Co-ordinator

Prof. S. J. Kadam

Head of Department

(External Examiner)

Dr. V. R. Ghorpade

Principal



ROBOSAP PRIVATE LIMITED

Robosap is a leader in 3D printing, IOT, Quadcopters and Aeromodelling

Manufacturers and Dealers in Robotic Kits, CNC's,
3D Printing, IOT, Quadcopters and Aeromodelling
Electronic Components, Microcontroller Kits,
Raspberry Pi and Automation Equipments

REF No: 1-8.17N/14/143

Date: 24/5/18

To,
Head Of Department,
Mechanical Engineering
B.V.C.O.E, Kolhapur

Subject: Certificate of Completion of Project

This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyapeeth's College Of Engineering, Kolhapur have completed the project titled "Automatic Braking System and Fuel Flow Measurement Device" in stipulated time with satisfactory performance.

Sl. no	Name
1)	Sachin Balasaheb Pawar
2)	Ramchandra Gorakh Sarak
3)	Dnyanshwar Sahebrao Patil
4)	Dhuladev Raghvendra Agalave
5)	Nitesh Narayan Rawool

Rohit Kadam
Managing Director
Robosap Private Limited

Directors

Seal and Signature



**ROBOSAP INNOVATIONS
LIMITED**

Robosap Innovations Private Limited is a registered company in India.

Manufacturers and Dealers in Robotic Kits, CNC's,
3D Printing, IOT, Quadcopters and Aeromodelling
Electronic Components, Microcontroller Kits,
Raspberry Pi and Automation Equipments

REF No: R/11/17/18/022

Date: 12.1.2018

To,

Head Of Department,

Mechanical Engineering,

B.V.C.O.E. KOLHAPUR.

Sub: Cost estimation letter for sponsored Project Design Development And Manufacturing of Automatic Braking System And Fuel Flow Measurement

Dear sir,

This is reference to the your letter dated on 02/08/2017. We are pleased to accept your letter and provide permission for doing project from 09/09/2017 to 27/02/2018. As per the policy we provide good resource and material for successful completion of project.

SR NO	RESOURCES/MATERIAL	COST
1	COMPONENTS	16000
2	FABRICATION	5000
3	OTHER EXPENCES	4000
	TOTAL	25000

We hereby approved application from student and further activities of below mentions students from department of mechanical. The names of students are:

1. Sachin Balasaheb Pawar
2. Dnyaneshwar Sahebrao Patil
3. Ramchandra Gorakh Sarak
4. Dhuladev Raghavendra Agalave
5. Nitesh Narayan Rawool

For Robosap Innovations Private Limited

Rohit Kadam

Managing Director

Director

Seal and Signature



ROBOSAP PRIVATE LIMITED

Robosap and Robosap are registered trademarks and 3D printing

Manufacturers and Dealers in Robotic Kits, CNC's, 3D Printing, IOT, Quadcopters and Aeromodelling Electronic Components, Microcontroller Kits, Raspberry Pi and Automation Equipments

REF No: PN/1111/17-18/027

Date: 11/11/2018

SPONSORSHIP LETTER

This is to certify that following final year Engineering students of B.E Mechanical Engineering course at Bharati Vidyapeeth's College Of Engineering, Kolhapur are sponsored for following project in our organization for the academic year 2017-2018.

Title of the project: "Automatic Braking System and Fuel Flow measurement Device"

Sl. no	Name
1)	Sachin Balasaheb Pawar
2)	Ramchandra Gorakh Sarak
3)	Dnyanshwar Sahebrao Patil
4)	Dhuladev Raghvendra Agalave
5)	Nitesh Narayan Rawool

Terms and conditions:

- 1) Students are expected to work sincerely and regularly on the project to complete the same in stipulated time
- 2) All the required facilities and equipments to carry out the project work would be provided by robosap.com.

For Robosap Private Limited

Rohit Kadam

Managing Director

Divdore

Seal and Signature

Apex Technologies

Outward Number:- 2

Date :- 19-7-2017

To,
The Principal
Bharati Vidyapeeth's College of Engineering, Kolhapur

Subject: Financial Assistance for the project titled “Detecting Experts on Quora”

Dear Sir,

This is to inform that our company is sponsoring the final year student project of Computer Science and Engineering department which is titled “**Detecting Experts on Quora**” with maximum amount/ expenses of **Rs 25, 000/- (Rs. Twenty Five Thousand Only)**.

The sponsorship will be in terms of software's, devices, high testing and expert resources or workshop needed for project. The sanctioned amount is to be utilized for the above project and during the academic year 2017-2018 only. The duration for completion of above project will be one year.

Kindly allow the following group of students to work under the Guidance/ Principal investigator of Mr. S.B.Patil Assistant Professor Bharati Vidyapeeth's College of Engineering, Kolhapur.

Name of Students:

1. Mr. Nishant S Vhatkar
2. Mr. Tejas S Mudolkar
3. Mr. Prathamesh D Nadgouda
4. Ms. Ashwarya R Patil
5. Mr. Unmesh S Phadnis

Kindly consider letter as sanction letter, this is for your kind information and further needful action



Thanks and Regards

For Apex Technologies

Name of Director (Managing Director)

“DETECTING EXPERTS ON QUORA”

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the degree of

Bachelor of Engineering

In

Computer Science and Engineering

By

NAME	ROLL NO
Mr. Nishant S. Vhatkar.	65
Mr. Tejas S. Mudholkar.	66
Mr. Prathamesh D. Nadgouda.	67
Ms. Aishwarya R. Patil.	68
Mr. Unmesh S. Phadnis.	69

UNDER THE GUIDENCE OF

Mr. S. B. Patil.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BHARATI VIDYAPEETH COLLEGE OF ENGINEERING KOLHAPUR.

Year 2017 – 2018

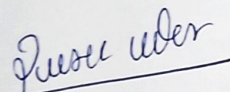



CERTIFICATE

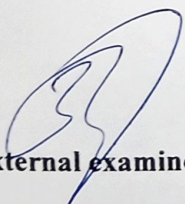
This is to certify that, project report entitled, “**DETECTING EXPERTS ON QUORA**” submitted by **Mr. Nishant S. Vhatkar, Mr. Tejas S. Mudholkar, Mr. Prathamesh D. Nadgouda, Miss. Aishwarya R. Patil, Mr. Unmesh S. Phadnis** are confides work carried out by them under the guidance of **Mr. S. B. Patil** and it is approved for partial fulfillment of the requirement of the Shivaji University, Kolhapur for the award of the Bachelor's Degree of Engineering in Computer Science Engineering.


Place: Kolhapur

Date: 13/04/18


Mr. S. B. Patil
GUIDE


Mrs. S. M. Mulla
HOD


External examiner


Dr. V.R. Ghorpade
PRINCIPAL

Apex Technologies

Outward number:-2

Date:-19-07-17

To,
Principal,
Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject:-Sponsorship for final year project of engineering.

Respected Madam,

We are pleased to inform you that our organization "Apex Technologies" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project. Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

1. Mr. Nishant S. Vhatkar
2. Mr. Tejas S. Mudholkar
3. Mr. Prathamesh D. Nadgouda.
4. Miss. Aishwarya R. Patil.
5. Mr. Unmesh S. Phadnis

Apex Technologies

Project Name: Expert detection on Quora.

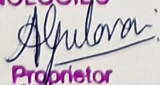
Quora is a fast growing social Q&A site where users create and answer questions, and identify the best answers by upvotes and downvotes with crowd wisdom. Unfortunately, little is known about properties of experts and non-experts and how to detect experts in general topics or a specific topic. To fill the gaps, in this manuscript we (1) analyze behaviors of experts and non-experts in five popular topics; (2) propose user activity features, quality of answer features, linguistic features and temporal features to identify distinguishing patterns between experts and nonexperts; and (3) develop statistical models based on the features to automatically detect experts. Our experimental results show that our classifiers effectively identify experts in general topics and a specific topic, achieving up to 97 % accuracy and 0.987 AUC.

Considering project requirements of the students, it might require huge expenses to be spent on it. After completing the project we shall consider a demonstration of the project and if it fits to our organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spent on the study materials, stationary and instruments required for establishing setup of the project.

Thanking You.

Regards,

For APEX TECHNOLOGIES



Proprietor

Sign and stamp of Director

(Managing Director)

Apex Technologies

Outward Number:-2

Date:- 03-03-18

To,
Principal,
Bharati Vidyapeeth's College Of Engineering,
Kolhapur.

Subject:-Completion of Final Year Project of Engineering.

Respected Sir,

We are pleased to inform you that our organization APEX TECHNOLOGIE'S, has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

1. Nishant Suhas Vhatkar.
2. Prathamesh Deepak Nadgouda.
3. Tejas Satish Mudholkar.
4. Aishwarya Rajendra Patil.
5. Unmesh Sunil Phadnis.

"DETECTING EXPERTS FORM QUORA"

Considering project requirements of the students, in might require huge expenses to be spent on it. After completing the project we shall consider a demonstration of the project and if it is fits to our Organization's requirements we shall buy this project from students in the future. The expenses provided by us should be spend on the study materials, stationery and instruments required for establishing setup of the project.

Thanks and Regards,

Sign and Stamp Of Director
(General Manager)

To,

The Principal

Bharati Vidyapeeth's College of Engineering, Kolhapur

Subject: Financial Assistance for the project titled “Mobimed The Health Assistant”

Dear Sir,

This is to inform that our company is sponsoring the final year student project of Computer Science and Engineering department which is titled “**“Mobimed The Health Assistant”**” with maximum amount/ expenses of **Rs.15, 000/- (Rs. Fifteen Thousand Only).**

The sponsorship will be in terms of software's, devices, high testing and expert resources or workshop needed for project. The sanctioned amount is to be utilized for the above project and during the academic year 2017-2018 only. The duration for completion of above project will be one year.

Kindly allow the following group of students to work under the Guidance/ Principal investigator of Mr. S. B. Takmare Assistant professor Bharati Vidyapeeth's College of Engineering, Kolhapur.

Name of Students:

1. Mr. Shesharaj K Gore
2. Ms Priyanka P Kulkarni
3. Mr.Shailesh S Jadhav
4. Ms. Pooja S Manre
5. Ms.Vaibhavi P Rendalkar

Kindly consider letter as sanction letter, this is for your kind information and needful



Soham S. More Technical Director

MOBIMED: THE HEALTH ASSISTANT

A Project Report

Submitted in partial fulfillment of the requirements

For the award of the degree of

Bachelor of Engineering

In

Computer Science and Engineering

By

Roll No.

Student's Name

6

Shesharaj K. Gore.

7

Priyanka P. Kulkarni.

8

Shailesh S. Jadhav.

9

Pooja S. Mane.

10

Vaibhavi P. Rendalkar.

Under the guidance of

Mr. S. B. Patil



Department of Computer Science and Engineering

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

YEAR: 2017-18



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

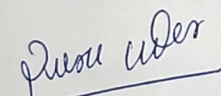
CERTIFICATE

This is to certify that the project report entitled "**MobiMed: The Health Assistant**" submitted by **Mr. Shesharaj K. Gore, Ms. Priyanka P. Kulkarni, Mr. Shailesh S. Jadhav, Ms. Pooja S. Mane, Ms. Vaibhavi P. Rendalkar** for the partial fulfillment of the requirement for the award of degree of **Bachelor of Engineering in Computer Science & Engineering** to the **Shivaji University**.


This report is record of student's team work carried out by them under my supervision and guidance.

Date:

Place:


Guide

Mr. S. B. Patil


HOD

Mrs. S. M. Mulla


Principal

Dr. V. R. Ghorpade

Date :

Ref: DOC/20172018/02

Date: 17-07-2017

To,

Principal,

Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject:- Sponsorship for final year project of engineering.

Respected Sir,

We are pleased to inform you that our organization "Global Eye Technology, Kolhapur" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

6. Gore Shesharaj K.

7. Kulkarni Priyanka P.

8. Jadhav Shailesh S.

9. Mane Puja S.

10. Rendalkar Vaibhavi P.

We are glad to confirm our interest in the project named "**Mobi Med**" for the above listed students of your esteemed institute. This application helps to communicate between doctors and common peoples that will help doctors to keep the complete track on the patient activities.

The expenses provided by us should be spent on the study materials, stationary and instruments required for establishing setup of the project.

Thanking You,

Soham S More.



Ref: DOC/20172018/05

Date: 04-04-2018

PROJECT COMPLETION LETTER

To,
Principal,
Bharati Vidyapeeth's College of Engineering, Kolhapur.

Respected Sir,

We declare that the students from your college have successfully completed the project within an estimate time. All the details about the project completion and satisfaction are as below:

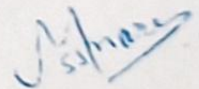
1. Project Name: Mobimed: The Health Assistant
2. Illustration about the project: When we had a study on various topics, we found that the project Mobimed This application helps to communicate between doctor and patient which is an online application .The basic design of MobiMed is on a web application and Android app in which the application is on a web server, and users will access it via App. This Online Prescription management system receive more and more attention due to the ability to reshape current healthcare system for example patient can book and cancel appointment through mobile app ,he can also see the availability of doctor and his previous treatment history.
3. Implemented by:
 1. Shesharaj K. Gore
 2. Priyanka P. Kulkarni.
 3. Shailesh S. Jadhav.
 4. Pooja S. Mane.
 5. Vaibhavi P. Rendalkar
4. Name of Institute: Bharati Vidyapeeth's College of Engineering, Kolhapur.
5. Project guide: Mr. S.B.Patil Department of Computer Science And Engineering.
6. Sponsored By: Global Eye Technology, Kolhapur.
7. Date of Sanction: 1-8-17.
8. Final Date of completion: 22-3-18.
9. No. of days spent (Approx.): 7 months 21 days
10. Sponsored Amount: Rs.15000/-

Certified that we are satisfied with the project made by the students and it is completed as per the requirements, hence we declared that the project is in complete working state. We congratulate all the students for completion of the project and also wish them, best luck for their future.

Thanking You,

Date: 04-04-2018

Place: Kolhapur



(Managing Director)



AUTOMATION OF TOLL COLLECTION AND VEHICLE SECURITY

A Project Report

submitted in partial fulfillment of the requirements

for the award of the degree of

Bachelor of Engineering

in

Computer Science & Engineering

by

46 Ms. Jagtap Supriya D.

47 Ms. Ghatage Shweta A.

48 Ms. Koli Supriya S.

49 Ms. Yadav Neelam M.

under the guidance of

Mrs. S. M. Mulla



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

YEAR: 2017-18

REMNO NO.273351104474/7/2017

Date 15/7/2017

To,

The Principal

Bharati Vidyapeeth's College of Engineering, Kolhapur

Subject: Financial Assistance for the project titled “Automation For Toll Collection and Vehicle Security”

Dear Sir,

This is to inform that our company is sponsoring the final year student project of Computer Science and Engineering department which is titled “**Automation For Toll Collection and Vehicle Security**” with maximum amount/ expenses of **Rs.30, 000/- (Rs. Thirty Thousand Only)**.

The sponsorship will be in terms of software's, devices, high testing and expert resources or workshop needed for project. The sanctioned amount is to be utilized for the above project and during the academic year 2017-18 only. The duration for completion of above project will be one year.

Kindly allow the following group of students to work under the Guidance/ Principal investigator of Mr. S.U. Kadam Assistant professor Bharati Vidyapeeth's College of Engineering, Kolhapur.

Name of Students:

1. Mr. Jagtap S Dattatray
2. Ms Shweta A Ghatage
3. Ms.Supriya S Koli
4. Ms.Neelam M Yadav
5. Ms.Prajakata Ayarekar

Kindly consider letter as sanction letter, this is for your kind information and further needful action



(Managing Director)





CERTIFICATE

This is to certify that the project report entitled “Automation of toll collection and vehicle security” submitted by Ms. Supriya D. Jagtap, Ms. Shweta A. Ghatage, Ms. Supriya S. Koli, Ms. Neelam M. Yadav for the partial fulfillment of the requirement for the award of degree of **Bachelor of Engineering in Computer Science & Engineering** to the **Shivaji University**.

This report is record of students’ team work carried out by them under my supervision and guidance.

Date:

Place:

Guide

Mrs. S. M. Mulla

HoD

Mrs. S. M. Mulla

PRINCIPAL

Dr. V. R. Ghorpade

Electro Dreams Tech, India

Block No.6, Tejashri appt., Near Limaye Hospital. Vishrambag, SANGLI.

Tal- Miraj Dist- Sangli (Maharashtra).416416

Office- +91-9960361004, +91-9595441004 Email-electrodreams.info@gmail.com

Website- www.electrodreams.in

Industrial, Agricultural, Educational Automation & System Design, Developing & Manufacturing (Electronics & Electrical

REMN NO.273351104474/ 7/2017

Date 15/07/2017

To,
Principal,
Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject:-Sponsorship for final year project of engineering.

Respected Madam,

We are pleased to inform you that our organization "Electro Dreams Tech, sangli Office Address - Flat No.6 ,Tejeshree Apartment ,Near Limiye Eyes Hospital , Vishrambag , Sangli .416415" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has sponsoring the engineering students for their final year projects, so we have chosen the following students from your institute. We have received application for sponsorship from these students.

1. Jagtap Supriya Dattatray
2. Ghatage Shweta Ashok
3. Koli Supriya Shivaji
4. Yadav Neelam Maruti
5. Ayarekar Prajakta Shrikant

Automation of Toll collection and Vehicle security

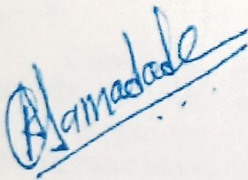
Now a days there is a huge rush in the toll plazas in order to pay the toll tax. Therefore in order to reduce the traffic jam and to save time, & also to reduce the money loss of 300 cores / year. We have designed project for the automation in toll tax payment using RFID. We are going to make the automation of toll plaza using combination of Android application, RFID, GSM.

The implantation of automation in toll plaza which is a step towards improving the monitoring of vehicles, travelling in predetermine routes.

The aim of our project is to design a system, which automatically identifies an approaching vehicles and record vehicles number and time. If the vehicle belongs to the authorized person, it automatically opens the toll gate and a predetermined amount is automatically deducted from its account through application. This translate to reduced Traffic congestion at toll plazas and helps in lower fuel consumption. This is very important advantage of this system.

Thanking You.

Regards,



(Managing Director)



Electro Dreams Tech.
Block No.6, Tejashri Appt.
Vishrambag, Sangli. 416416
Email:- electrodreams.info@gmail.com

To,
Principle,
Bharati Vidyapeeth's College Of Engineering, Kolhapur

Subject:- Completion of Final Year Project of Engineering.

Respected Sir,

We are pleased to inform you that our organization "Electro Dreams Tech, sangli" has chosen following students for being sponsored under our Student Development and Encouragement Program for completing their final year project.

Our organization is very reputed and has been sponsoring the engineering students for their final year project, so we have selected the following students from your institute. We have received application for sponsorship from these students.


1. Jagtap Supriya Dattatray
2. Ghatage Shweta Ashok
3. Koli Supriya Shivaji
4. Yadav Neelam Maruti

"Automation of toll collection and vehicle security"

Considering project requirements of the students. After completing the project we shall consider a demonstration of the project and if it fits according to requirements & norms of our Organization we may consider to buy this project from students in the future and the expenses provided by us should be spend on the study materials, stationary and instruments required for establishing set up of the project.

Thanks and Regards,




Name of
Director
Electro Dreams Tech.
(Managing
Director)
Block No.6, Tejashri Appt.
Vishrambag, Sangli, 416416
Email: electrodreams.info@gmail.com



TIRUPATI ENTERPRISES

Reg. Off. :F - 7, Sankalp Apartment, Bhoir Colony, Chinchwad,
Pune -33. ☎:(020) 2745 9225 Email-tirupatipune@yahoo.co.in
Branch Off.: Office No. 101, Rhea Apartment, 5, Aundh-Khadki
Road, Khadki, Pune-20 ☎:(020) 25812252 Mob: 9890281157

Authorised Dealers in Electrical & Electronics testing & measuring instruments,
Dealers for all types of Electrical & Electronics goods

REF No. TE/LAT/2017-18/010

Date: 04/08/2017

To,
The Principal,
Bharati Vidyapeeth's College of Engineering, Kolhapur.

Subject: Financial assistance for the project titled "Hand Motion Crane Control System"

Dear Sir,

This is to inform you that our company is sponsoring the final year student project of the Electronics and Telecommunication Engineering department which is titled "Hand Motion Crane Control System" with maximum amount/ expenses of **Rs.27,135/- (Rs. Twenty-seven Thousand One Hundred Thirty-five Only)**. The sponsorship will be in terms of the purchase of project Components materials also Project testing costs, site visits, and expert resources. The amount to be utilized for the above project and during the academic year 2017-18 only. The duration for the completion of the project will be one year.

Kindly allow the following group of students to work under the Guidance/ Principal investigator of Mr. Veeresh PM, Assistant Professor Bharati Vidyapeeth's College of Engineering, Kolhapur.

- 1 Mr. Nikalje Bhagyesh Sarjerao
- 2 Mr. Patil Akash Yashavant
- 3 Mr. Pandharpatte Swapnil Mohan

Kindly consider this as a sanction letter; this is for your information and further needful action

Thanking you.
Yours faithfully,

(FOR TIRUPATI ENTERPRISES).
Jaydip B. Shelke
9890281157
(Email: tirupatipune@yahoo.co.in)



A

PROJECT REPORT ON

“HAND MOTION CRANE CONTROL SYSTEM”

SUBMITTED TO THE SHIVAJI UNIVERSITY, KOLHAPUR
IN THE PARTIAL FULFILMENT OF REQUIREMENTS
FOR THE AWARD OF THE DEGREE

OF

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBMITTED BY

Mr. Nikalje Bhagyesh Sarjerao

Roll No.08

Mr. Patil Akash Yashvant

Roll No.14

Mr. Pandharpatte Swapnil Mohan

Roll No.09

UNDER THE GUIDANCE OF

Mr. Veeresh P.M

DEPARTMENT OF

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

NEAR CHITRANAGARI KOLHAPUR-416013

2017-2018



BHARATI VIDYAPEETH'S

COLLEGE OF ENGINEERING, KOLHAPUR

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that, project report entitled, "*HAND MOTION CRANE CONTROL SYSTEM*" submitted Mr. Nikalje Bhagyesh Sarjerao, Mr. Patil Akash Yashvant and Mr. Pandharpatte Swapnil Mohan is bonafide work carried out by them under the guidance of Mr. Veeresh.P.M and it is approved for partial fulfillment of the requirement of the Shivaji University, Kolhapur for the award of the Bachelor's Degree of Engineering Electronics & Telecommunication Engineering.

Mr. Veeresh. P.M

Guide

Prof. K. R. Desai

HOD

Dr. Vijay R. Ghorpade

Principal

DATE: / / 2018

PLACE: - KOLHAPUR