

Field Project Certificates

दूरभाष/Telephone: 040 24301767
फैक्स/Fax: 040 24301673
ई-मेल/E-mail:alexandaniel@asl.drdo.in

Dr ALEX DANIEL
Scientist 'E'
CMCD/HTCC



भारत सरकार, रक्षा मंत्रालय
Government of India, Ministry of Defence
रक्षा अनुसंधान तथा विकास संगठन
Defence Research & Development Organisation
उन्नत प्रणाली प्रयोगशाला
ADVANCED SYSTEMS LABORATORY
Dr.A.P.J.Abdul Kalam missile complex
कंचनबाग डाकघर, हैदराबाद - 500 058
PO Kanchanbagh, Hyderabad - 500 058

Date: 16th June 2021

CERTIFICATE

This is to certify that Mr M. AMARNATH bearing Roll No (1602-17-736-005) a student of VASAVI COLLEGE OF ENGINEERING, Ibrahimbagh, Hyderabad pursuing the degree of (B.E) in Mechanical Engineering has undergone Project Work / Internship titled "*Design and Development of Ceramic Radomes*" under our guidance during the period from 16-03-2021 to 16-06-2021 in partial fulfilment of the requirements for the award of the above mentioned degree. The student is punctual, hardworking and shown keen interest to learn about the system integration and its intricacies.



Dr ALEX DANIEL

डॉ. अलेक्स डैनियल / Dr. ALEX DANIEL
वैज्ञानिक 'ई' / Scientist 'E'
रक्षा मंत्रालय, डी.आर.डी.ओ. / Ministry of Defence, DRDO
उन्नत प्रणाली प्रयोगशाला / Advanced Systems Laboratory
कंचनबाग, हैदराबाद. / Kanchanbagh, Hyderabad-500058

दूरभाष Telephone: 040 24301767

फैक्स/Fax: 040 24301673

ई-मेल E-mail: alexdaniel@asl drdo.in

Dr ALEX DANIEL
Scientist 'E'
CMCD/HTCC



भारत सरकार, रक्षा मंत्रालय

Government of India, Ministry of Defence

रक्षा अनुसंधान तथा विकास संगठन

Defence Research & Development Organisation

उन्नत प्रणाली प्रयोगशाला

ADVANCED SYSTEMS LABORATORY

Dr. A.P.J. Abdul Kalam missile complex

कंचनबाग डाकघर, हैदराबाद - 500 058

PO Kanchanbagh, Hyderabad - 500 058

Date: 16th June 2021

CERTIFICATE

This is to certify that Mr Bheemishetty Saibaba bearing Roll No (1602-17-736-030) a student of VASAVI COLLEGE OF ENGINEERING, Ibrahimbagh, Hyderabad pursuing the degree of (B.E) in Mechanical Engineering has undergone Project Work / Internship titled "*Design and Development of Ceramic Radomes*" under our guidance during the period from 16-03-2021 to 16-06-2021 in partial fulfilment of the requirements for the award of the above mentioned degree. The student is punctual, hardworking and shown keen interest to learn about the system integration and its intricacies.



Dr ALEX DANIEL

डॉ. अलेक्स डैनियल / Dr. ALEX DANIEL

वैज्ञानिक 'ई' / Scientist 'E'

रक्षा मंत्रालय, डी.आर.डी.ओ. / Ministry of Defence, DRDO

उन्नत प्रणाली प्रयोगशाला / Advanced Systems Laboratory

कंचनबाग, हैदराबाद / Kanchanbagh, Hyderabad-500058

A7



Date: 21st Jun 2021

CERTIFICATE OF INTERNSHIP

It is Certified that Ms. Charita Vemula bearing 1602-17-736-010, bonafide student of Mechanical Engineering department, VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) successfully completed his final year bachelor's project, DESIGN AND ANALYSIS OF A VIBRATION TESTING FIXTURE FOR AN AEROSPACE VEHICLE COMPONENT at Centre for Advanced Systems (CAS) - Defence Research and Development Organization (DRDO), Hyderabad from March 2021 to June 2021.

During his project she has shown keen interest in learning with sincere effort.

Wishing her all the best for future endeavors.

(Nikhil Kumar Kushwaha) Sc 'B'

Project Guide

(B. Venkateswara Rao) Sc 'G'

Director of Management Services

CAS, DRDO



B. VENKATESWARA RAO
Scientist 'G'
DOMS
CENTRE FOR ADVANCED SYSTEMS,
DRDO, Ministry Of Defence
Yadgarpally (V), Keesara (M)
Hyderabad-501301



Date: 21st Jun 2021

CERTIFICATE OF INTERNSHIP

It is Certified that **Mr. D. Kalyan Pavan Kumar Yadav** bearing **1602-17-736-013**, bonafide student of **Mechanical Engineering** department, **VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)** successfully completed his final year bachelor's project, **DESIGN AND ANALYSIS OF A VIBRATION TESTING FIXTURE FOR AN AEROSPACE VEHICLE COMPONENT** at Centre for Advanced Systems (CAS) - Defence Research and Development Organization (DRDO), Hyderabad from March 2021 to June 2021.

During his project he has shown keen interest in learning with sincere effort.

Wishing him all the best for future endeavors.

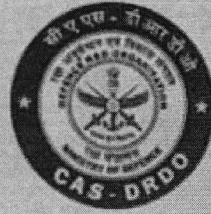
(Nikhil Kumar Kushwaha) Sc 'B'
Project Guide

(B. Venkateswara Rao) Sc 'G'
Director of Management Services
CAS, DRDO



B. VENKATESWARA RAO
Scientist 'G'
DOMS
CENTRE FOR ADVANCED SYSTEMS,
DRDO, Ministry Of Defence
Yadgarpally (V), Keesara (M)
Hyderabad-501301

A7



Date: 21st Jun 2021

CERTIFICATE OF INTERNSHIP

It is Certified that Mr. S. Rohit Kumar Reddy bearing 1602-17-736-029, bonafide student of Mechanical Engineering department, VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) successfully completed his final year bachelor's project, DESIGN AND ANALYSIS OF A VIBRATION TESTING FIXTURE FOR FOR AN AEROSPACE VEHICLE COMPONENT at Centre for Advanced Systems (CAS) - Defence Research and Development Organization (DRDO), Hyderabad from March 2021 to June 2021.

During his project he has shown keen interest in learning with sincere effort.

Wishing him all the best for future endeavors.

(Nikhil Kumar Kushwaha) Sc 'B'

Project Guide

(B. Venkateswara Rao) Sc 'G'

Director of Management Services

CAS, DRDO



B. VENKATESWARA RAO
Scientist 'G'
DOMS
CENTRE FOR ADVANCED SYSTEMS,
DRDO, Ministry Of Defence
Yadgarpally (V), Kaesara (M)
Hyderabad-501301



HUMAN RESOURCE DEVELOPMENT

Dated: 19-7-21

CERTIFICATE

This is to certify that **NAGA SAI PANUGANTI** of **VASAVI COLLEGE OF ENGINEERING** has undergone project training from **15/03/2021** to **19/07/2021** in the Defence Electronics Research Laboratory, Hyderabad-05. The project **“Design and Analysis of Single-Phase Microchannel Cooling system for Electronic Devices”** is a record of the bonafide work undertaken by her towards partial fulfillment of the requirements for the award of the Degree of Mechanical Engineering. He has completed the assigned task satisfactorily.

M. Uma Ravindra

(Mr. Uma Ravindra)

Sc 'E'
Guide

Dr. Lachiram

(Dr. Lachiram)

Sc 'F'
Wing Head

JRC Sarma

(JRC Sarma)

Sc 'F'
Wing Head HRD
DLRL, Hyderabad
JRC SARMA
Scientist 'F', DLRL
Defence R&D Organisation
Hyderabad - 500 005



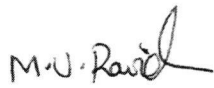


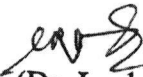
HUMAN RESOURCE DEVELOPMENT


Dated: 19-7-21

CERTIFICATE

This is to certify that **B SRI CHARAN** of **VASAVI COLLEGE OF ENGINEERING** has undergone project training from **15/03/2021** to **19/07/2021** in the Defence Electronics Research Laboratory, Hyderabad-05. The project "**Design and Analysis of Single-Phase Microchannel Cooling system for Electronic Devices**" is a record of the bonafide work undertaken by her towards partial fulfillment of the requirements for the award of the Degree of Mechanical Engineering. He has completed the assigned task satisfactorily.


 (Mr. Uma Ravindra)
 Sc 'E'
 Guide


 (Dr. Lachiram)
 Sc 'F'
 Wing Head


 (JRC Sarma)
 Sc 'F'
 Wing Head HRD
 DLRL, Hyderabad
 JRC SARMA
 Scientist 'F', DLRL
 Defence R&D Organisation
 Hyderabad - 500 005



भारत डायनामिक्स लिमिटेड
भारत सरकार का उद्यम
रक्षा मंत्रालय
कान्चनबाग, हैदराबाद- 500 058, आ.प्र., भारत.



BHARAT DYNAMICS LIMITED

A Govt. of India Enterprise

Ministry of Defence

Kanchanbagh, Hyderabad-500 058. A.P. INDIA



A10

Year : 2021

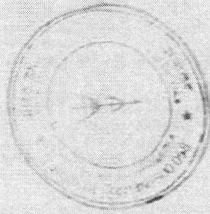
Regd No.07

PROJECT CERTIFICATE

Shri KODIDASU PURNA RAMA SAI USHA PRANAV, Son of Shri KODIDASU RAMESH & Smt. TEEDA BRUNDA DEVI Student of College/Institute Vasavi College of Engineering in Discipline Mechanical Engineering VIII Semester has completed Project Work/Training on DESIGN AND DEVELOPMENT OF PRESSURE VESSEL OF 20 MPa CAPACITY OF GUIDED ROCKETS.

Duration 3 months Period from 05-04-2021 to 04-07-2021.

He has shown keen interest in learning during the period of Project.



Narwanj 10/07/21
INCHARGE, PROJECT WORK

एन. नरवान्ज स्वामी
N. NARWANJ SWAMY
() जे. आर. ए.
(), NE-EST
भारत डायनामिक्स लिमिटेड
Bharat Dynamics Limited
हैदराबाद Hyderabad

ईपीएबीएक्स टेलिफोन EPABX Tel.No.24587776, 24587777 फॅक्स Fax : 24340464

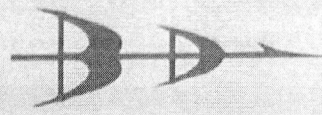
ईमेल Email : bdltd@ap.nic.in वेबसाईट Website : <http://bdl.ap.nic.in>

भारत डायनामिक्स लिमिटेड
BHARAT DYNAMICS LIMITED

भारत सरकार का उद्यम
Govt. of India Enterprise
रक्षा मंत्रालय

Ministry of Defence
कंचनबाग, हैदराबाद - 500 058, टि.एस. भारत.

Kanchanbagh, Hyderabad - 500 058, T.S. INDIA



A10

CIN : U24292TG1970GOI001353

Year : 2021

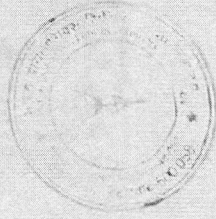
Regd No.06

PROJECT CERTIFICATE

Shri BUSHIREDDY SAI CHARAN REDDY, Son of Shri B SATYA REDDY & Smt. B MANJULA Student of College/Institute Vasavi College of Engineering in Discipline Mechanical Engineering VIII Semester has completed Project Work/Training on DESIGN AND DEVELOPMENT OF PRESSURE VESSEL OF 20 MPa CAPACITY OF GUIDED ROCKETS.

Duration 3 months Period from 05-04-2021 to 04-07-2021.

He has shown keen interest in learning during the period of Project.



N. Swamy 10/7/21
INCHARGE, PROJECT WORK

एन. मल्लिकार्जुन स्वामी
M. MALLIKARJUNA SWAMY
प्रो. प्रो. (कॉन्सल्टिंग) एंजिनियरिंग
(वि. एंजिनियरिंग) एंजिनियरिंग
Bharat Dynamics Limited
हैदराबाद Hyderabad.

टेलिफोन Tel. :

फैक्स Fax :



भारत डायनामिक्स लिमिटेड
BHARAT DYNAMICS LIMITED

भारत सरकार का उद्यम

Govt. of India Enterprise

रक्षा मंत्रालय

Ministry of Defence

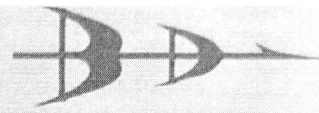
कंचनबाग, हैदराबाद - 500 058. टि.एस. भारत.

Kanchanbagh, Hyderabad - 500 058. T.S. INDIA

CIN : U24292TG1970GOI001353

Year : 2021

Regd No.05



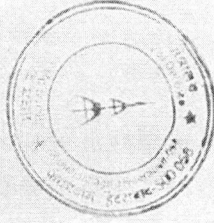
A.10.

PROJECT CERTIFICATE

Shri C BALA KRISHNA, Son of Shri C BALA MURALI & Smt. C KRISHNA KUMARI Student of College/Institute Vasavi College of Engineering in Discipline Mechanical Engineering VIII Semester has completed Project Work/Training on DESIGN AND DEVELOPMENT OF PRESSURE VESSEL OF 20 MPa CAPACITY OF GUIDED ROCKETS.

Duration 3 months Period from 05-04-2021 to 04-07-2021.

He has shown keen interest in learning during the period of Project.



M. Mallikarjuna Swamy 10/7/21

INCHARGE, PROJECT WORK

एन. मल्लिकार्जुन स्वामी
M. MALLIKARJUNA SWAMY

एन. मल्लिकार्जुन स्वामी (का एन.एस.ए.) के का स्था.
Dy. Manager (R&D), NE-Estb.
भारत डायनामिक्स लिमिटेड
Bharat Dynamics Limited
हैदराबाद Hyderabad.

टेलिफोन Tel. :

फैक्स Fax :



A15

DLRL
ISO 9001:2015 Certified Lab



NO: DLRLIHRD/150742/10/
Government of India, Ministry of Defence
Defence Research & Development Organization
Chandrayanagutta, Hyderabad- 500 005.

HUMAN RESOURCE DEVELOPMENT

Dated: 08-07-2021

CERTIFICATE

1602-17-736-301

This is to certify that K. SRIRAM PRASAD has undergone project training from 15/3/2021 to 30/6/2021 in the Defence Electronics Research Laboratory, Hyderabad-OS. The project "**Structural design of an electronic enclosure for space application**" is a record of the bonafide work undertaken by him towards partial fulfillment of the requirements for the award of the Degree of Mechanical Engineering. He has completed the assigned task satisfactorily.

(Mr. K. Chandrakar)
Sc 'E'
Guide

(Dr. Lachiram)
Sc 'F'
Wing Head

(JRC Sarma)
Sc 'F'
Wing Head HRD
DLRL, Hyderabad
JRC SARMA
Scientist 'F', DLRL
Defence R&D Organisation
Hyderabad - 500 005



DLRL is an ISO9001:2015 Certified Laboratory



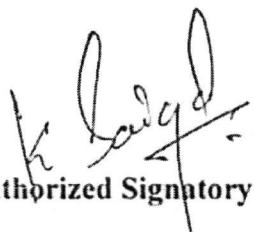
CERTIFICATE OF INTERNSHIP

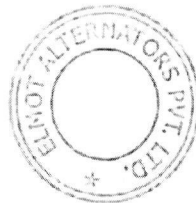
TO WHOM IT MAY CONCERN

This is to certify that **Ms. Anagha Sribhashyam** pursuing Degree in Bachelor of Mechanical Engineering, at Vasavi College of Engineering (Autonomous) has successfully completed the internship March 15, 2021 to July 03, 2021 and the project undertaken by her is titled as "*Design and Analysis of Alternator Rotor Shaft*".

The Project on evaluation fulfils all the stated criteria and the student's findings are her original work.

I hereby certify her work [✓]excellent / good / satisfactory to the best of my knowledge.


Authorized Signatory





PERFECT PROFILES

MFRS. OF : PRECISION COMPONENTS (CNC Lathes & CNC Milling)

H.No.: 4-209/A, Beside Bharath Lodge, Geetha Nagar,
Ferozguda, Bowenpally Post, Sec'bad - 500 011.

Ph: 040-23772961, Fax : 040-23771405, E-mail : perfectprofileshyd@yahoo.co.in

A25

Date: 24.06.2021

TO WHOMSOEVER IT MAY CONCERN

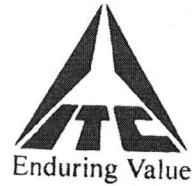
This is to certify that Ms. **Thangella Shreya** bearing **Roll No (1602-17-736-044)** a student of **VASAVI COLLEGE OF ENGINEERING, Ibrahimbagh, Hyderabad** pursuing the degree of **(B.E) in Mechanical Engineering** has undergone Project Work/ Internship titled **“PRODUCTIVITY IMPROVEMENT IN MANUFACTURING K 4 ¼ GUIDE BUSH”** under our guidance during the period from **24.03.2021 to 24.06.2021** in partial fulfilment for the award of the above mentioned degree. The student is punctual, hardworking and shown keen interest to learn about the project work she has undertaken.

for PERFECT PROFILES

Shreya
24/06/21
Proprietor



Project training in-charge



ITC Limited - PSPD
Anrich Industrial Estate,
Bollaram Village - 502 325.
Sanga Reddy District,
Telangana State, INDIA.
Telephone : 08458-279771, 279483
040-65642556

TO WHOM SO EVER IT MAY CONCERN

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Harithejas Namburi, did his 3 months internship at our Unit Bollaram on "Downtime Reduction of Rewinder Machine while Handling the Paper Roll" during the period from 7th April 2021 to 6th July 2021, as part of partial fulfilment for his BE (Mech Engg), Vasavi College Of Engineering (Autonomous), Hyderabad.

We wish Mr. Harithejas all the very best in his academics.

For ITC Limited
Paperboards & Specialty Papers Division

P Sai Srinivas
Manager- HR

Place : Bollaram

Date : 21/07/2021

**Institute
Project Certificates**

**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD**

CERTIFICATE

This is to certify that the project report entitled "**Design and Implementation of a wireless hand motion controlled robotic gripper**" is a bona fide record of a project carried out by

NIHARIKA KAZA - - - 1602-17-736-024
GAVUJI PRAJWALA - - - 1602-17-736-025
SAI SUHAS LINGA - - - 1602-17-736-035

In the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.



Mr. Veladri. K
Project Guide
Dept. of Mechanical Engineering

Associate Professor
Mechanical Engineering Dept.
Vasavi College of Engineering
Hyderabad-500 031.



Dr. T. Ramamohan Rao
Professor & HOD
Dept. of Mechanical Engineering

Dr T RAMAMOHAN RAO
Professor & HOD
Dept. Of Mechanical Engg
Vasavi College of Engg.
Ibrahimbagh, Hyderabad-31

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the project report entitled "DESIGN & ANALYSIS OF SAE FORMULA CAR INTAKE SYSTEM" is a Bonafide record of a project carried out by

BELLAMKONDA ALEKHYA - - - 1602-17-736-004

TUPAKULA SRI DIVYA - - - 1602-17-736-048

SUFFIYAN YASEEN - - - 1602-17-736-304

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.



Dr. T. Ramamohan Rao

Project Guide

Dr T RAMAMOCHAN RAO

Professor & HOD

Dept. Of Mechanical Engg

Vasavi College of Engg.

Ibrahimbagh, Hyderabad-31



Dr. T. Ramamohan Rao

Professor & HOD

Dept. of Mechanical Engg.

Dr T RAMAMOCHAN RAO

Professor & HOD

Dept. Of Mechanical Engg

Vasavi College of Engg.

Ibrahimbagh, Hyderabad-31

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD

CERTIFICATE


This is to certify that the project report entitled "Self balancing of two wheeler using gyroscope " is a bonafide record of a project carried out by


Sangishetty pradeep 1602-17-736-041

Bandaru Yashwanth 1602-17-736-060

Methari Mahesh kumar 1602-17-736-307

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfilment for the award of Degree in Bachelor of Mechanical Engineering.


Mr. VBS Rajendra Prasad
Associate Professor
Project guide.


Dr. T. Ramamohan rao
Professor & HOD
Dept. of Mechanical engineering.

Dr. T. RAMAMOCHAN RAO
Professor & HOD
Dept. Of Mechanical Engng
Vasavi College of Engg.
Ibrahimbagh, Hyderabad-31

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the project report entitled "**OPTIMIZATION OF INTERCOOLER FINS OF A TWO STAGE RECIPROCATING AIR COMPRESSOR**" is a bonafide record of a project carried out by

N. NAGARAJU 1602-17-736-022

G. STHITHAPRAGNA 1602-17-736-052

K. VIVEK YADAV 1602-17-736-059

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (Affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering



Dr. S. Venkataiah

Associate Professor

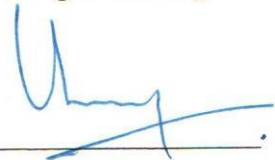
Project Guide

Associate Professor

Mechanical Engineering Dept.

Vasavi College of Engineering

Hyderabad 500 031



Dr. T. Ramamohan Rao

Professor & HOD

Dept. of Mechanical Engg.

Dr T RAMAMOHAN RAO

Professor & HOD

Dept. Of Mechanical Engg
Vasavi College of Engg.
Ibrahimbagh, Hyderabad-31

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD

CERTIFICATE

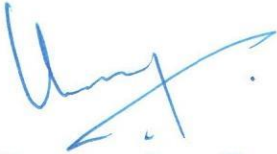
This is to certify that the project report entitled "*Crash Analysis of A Car Chassis*" is a bonafide record of a project carried out by

K. Akhil Reddy	- - - 1602-17-736-003
V. V. S. Pavan Kumar	- - - 1602-17-736-032
A. S. S. Rayudu	- - - 1602-17-736-034
Shubham Patil	- - - 1602-17-736-045

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2019-20 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.

M. Sudhakar
Mr. M. Sudhakar
Project Guide

Dr. T. Ramamohan Rao
Vasavi College of Engg.
Hyderabad-500 031


Dr. T. Ramamohan Rao
Professor & HOD
Dept. of Mechanical Engg.
Dr T RAMAMOCHAN RAO
Professor & HOD
Dept. Of Mechanical Engg
Vasavi College of Engg.
Ibrahimbagh, Hyderabad-31


**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD**

CERTIFICATE

This is to certify that the project report entitled "**Analysis of Compound vapor compression refrigeration system with Hydrocarbon refrigerants**" is a bonafide record of a project carried out by

S.Bhargavi - - - 1602-17-736-007
K.Sunil - - - 1602-17-736-056
S.Tanvi - - - 1602-17-736-057

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.


Dr. S. Venkataiah

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Dr. T. Rama Mohan Rao

**Professor & HOD
Dept. of Mechanical Engg.**

Dr T RAMAMOCHAN Rao
Professor & HOD
Dept. Of Mechanical Engg
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Ibrahimbagh, Hyderabad-31

VASAVI COLLEGE OF ENGINEERING

ACCREDITED BY NAAC WITH A++
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IBRAHIMBAGH, HYDERABAD

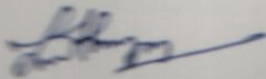
CERTIFICATE

This is to certify that the project report entitled "DESIGN AND ANALYSIS OF NACA 63215 WIND TURBINE BLADE USING ANSYS" is a bonafide record of a project carried out by

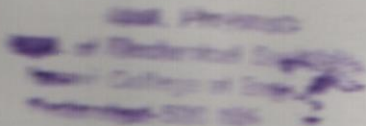
KUMMARI LIKHITHA 1602-17-736-015

VANGA SRAVANTHI 1602-17-736-311

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous), ACCREDITED BY NAAC WITH A++ (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfilment for the award of Degree in Bachelor of Mechanical Engineering.



MR. MUHAMMAD LUQMAN
Project guide



Dr. T. RAMMOHAN RAO
Professor & HOD
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Dr T RAMAMOCHAN RAO
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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) AFFILIATED
TO OSMANIA UNIVERSITY IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the project report entitled “**Simulation Studies on Convecting -Radiating Straight Circular Fins**” is a bonafide record of a project carried out by

Sridhar Chilumula	1602-16-736-048
Pally Sai Tejeshwar Reddy	1602-17-736-038
Bala Murali Krishna Gorrepati	1602-17-736-308

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2018-19 in partial fulfilment for the award of Degree in Bachelor of Mechanical Engineering.

For A
12/07/2021

Dr. C. GURURAJA RAO
Professor & Project Guide

PROFESSOR
MECHANICAL ENGINEERING
VASAVI COLLEGE OF ENGINEERING
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Dr. T. RAMA MOHAN RAO
Professor & HOD

Dr T RAMAMOCHAN RAO
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**VASAVI COLLEGE OF ENGINEERING
(AUTONOMOUS) AFFILIATED TO OSMANIA
UNIVERSITY IBRAHIMBAGH, HYDERABAD**

CERTIFICATE

This is to certify that the project report entitled “**Design and Analysis of Hydraulic Ram Pump**” is a bonafide record of a project carried out by

Gundlamadugu Daniel	--- 1602-17-736-011
Thanniru Manishwar	--- 1602-17-736-017
Gattu Sai Teja	--- 1602-17-736-037
Shaik Mustaq Ahmed	--- 1602-17-736-306

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.



Mr. N.B. Sambamurthy

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Dr. T. Ramamohan Rao

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AFFILIATED TO OSMANIA UNIVERSITY
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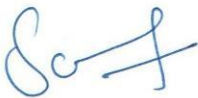
CERTIFICATE

This is to certify that the major project report entitled “Design, Analysis and Optimization of a Gravitational Vortex Turbine” is a bona-fide record of a major project carried out by

Bharat Agarwal

(1602-17-736-001)

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous), (affiliated to Osmania University, Hyderabad), during the academic year of 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.



Mr. B. Sandeep

Assistant Professor

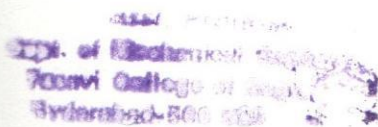
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Dr. T. Ramamohan Rao

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Dr T RAMAMOHAN RAO
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**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD**

CERTIFICATE


This is to certify that the project report entitled "DESIGN OF 4 WHEEL DRIVE TRANSMISSION GEARBOX FOR ALL TERRAIN VEHICLE" is a bonafide record of a project carried out by

Koushik Alapati --- 1602-17-736-014

Saketh Reddy Manda --- 1602-17-736-039

Saketh Vangapally --- 1602-17-736-040

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.


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Dr T RAMAMOHAN RAO
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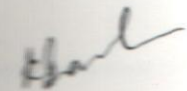
VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
AFFILIATED TO OSMANIA UNIVERSITY
IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the project report entitled
"DOWNTIME REDUCTION OF REWINDER MACHINE
WHILE HANDLING THE PAPER ROLL" is a bonafide
record of a project carried out by

HARITHEJAS N - - - 1602-17-736-020

in the Department of Mechanical Engineering, Vasavi
College of Engineering (Autonomous) (affiliated to
Osmania University), Hyderabad during the academic
year 2018-19 in partial fulfillment for the award of
Degree in Bachelor of Mechanical Engineering.



Dr./Mr. K.I. SPURGEON
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May 2019

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABAD

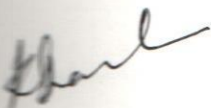
CERTIFICATE

This is to certify that the project report entitled "DESIGN OF SPUR GEAR IN VALVE MAINTAINENCE TRAILER" is a bonafide record of a project carried out by

N. RAHUL 1602-17-736-028
T. YASHWANTH VERMA 1602-16-736-059

B. SAI PRASAD 1602-15-736-040

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Mr. Spurgeon

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T. Rama Mohan Rao

HOD

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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the project report entitled " **DESIGN AND ANALYSIS OF EPICYCLIC GEARTRAIN** " is a bonafide record of a project carried out by

AADHISH ARAB

1602-17-736-061

GOUTHAM CHENGALVALA

1602-17-736-072

M.G.K.ADITYA

1602-17-736-074

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.



Mr. K. Srinivasa Rao

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Associate Professor
Mechanical Engineering Dept.
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Professor and Head of Department

Dr. T. RAMAMOHAN RAO

Professor & HOD

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Hyderabad

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABAD

CERTIFICATE

This is to certify that the project report entitled "**Design and Analysis of Suspension System for an FSAE car**" is a bonafide record of a project carried out by

Aditi Parvatham

--- 1602-17-736-063

Kyatham Anirudh

--- 1602-17-736-067

Jayanth Burri

--- 1602-17-736-075


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Dr. J. Anjaneyulu

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Assistant professor, MED.



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Asst. Professor
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Vasavi College of Engg.
Ibrahimbagh, Hyderabad-51

CERTIFICATE

This is to certify that the thesis entitled "ESTABLISHMENT OF LOWER NO_x EMISSIONS BY USING EGR COUPLED LOW HEAT REJECTION ENGINE WITH MICRO-ALGAE BIODIESEL" by the following members in partial fulfilment for the award of the degree of B.E in Mechanical Engineering is a bonafide record of project work carried out under my supervision. The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree.

VEGGALAM RISHWANTH	1602-17-736-093
AJMEERA RAJA	1602-17-736-091
BANOTHU SAMPATH	1602-17-736-070
ANGOTHU VENU GOPAL	1602-17-736-119



Mr. N. B. Samba Murthy
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ACKNOWLEDGEMENT

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CERTIFICATE

It is to certify that the project report entitled "**DESIGN AND ANALYSIS OF LEAF SPRING USING DIFFERENT ARRANGEMENTS OF COMPOSITE MATERIALS WITH STEEL LEAVES**" is a bonafide record of a project carried out by

- K. DEEPA 1602-17-736-073
- R. NIKHIL 1602-17-736-082
- D. VARUNTEJA 1602-17-736-117

the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.


N. B. SAMBA MURTHY

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Dr. T. RAMAMOCHAN RAO

MTech., Ph.D.

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Dr. T. RAMAMOCHAN RAO
Professor & HOD
Dept. Of Mechanical Engg
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Ibrahimbagh, Hyderabad-31

CERTIFICATE

This is to certify that the work reported in the major project entitled “**DESIGN, ANALYSIS AND COMPARISON OF CAST IRON AND ALUMINIUM METAL MATRIX COMPOSITE TRUCK BRAKING COMPONENTS.**” is a bonafide record of the work done by us in the Department of Mechanical Engineering, Vasavi College of Engineering, during the academic year 2020-21 in partial fulfilment for the award of Degree in Bachelor of Mechanical Engineering.

MOHAMMED AQUIB ALI KHAN: 1602-17-736-078
MOHAMMED ASHRAF ALI SIDDIQUI: 1602-17-736-079
G. SAHIT REDDY: 1602-17-736-096



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(professor and Head of Dept)

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CERTIFICATE

This is to certify that the project report entitled
"MODELLING & ANALYSIS OF V6 ENGINE BLOCK
USING AMC SC1 & CAST IRON" is a bonafide record
of a project carried out by

Nirmit Raj

1602-17-736-083

G.S.S. Prajwal

1602-17-736-086

Rakesh Neerudi

1602-17-736-316

T. Hari Krishna

1602-17-736-318

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Mr. B. Sandeep
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Assistant Professor



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CERTIFICATE


This is to certify that the project report entitled "DESIGN AND ANALYSIS OF 4 WHEEL DRIVETRAIN FOR SAE BAJA VEHICLE " is a bonafide record of a project carried out by

C. Nirmith	1602-17-736-084
D. Ritwik Chowdary	1602-17-736-094
S. Sai Sreeja	1602-17-736-102

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CERTIFICATE

This is to certify that the project report entitled
"Modelling and Analysis of Scissor Jack" is a bonafide
record of a project carried out by

M. Pavan Kalyan	--- 1602-17-736-085
Sk. Md. Sartaj Ali	--- 1602-17-736-105
D. V. S. Bhuvanesh	--- 1602-17-736-118
G. Krishna Sai	--- 1602-17-736-322

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Mr. Venu Gopal Reddy
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CERTIFICATE

This is to certify that the project report entitled "**DESIGN AND ANALYSIS OF ELECTRICKICK SCOOTER**" is a bonafide record of a project carried out

SINGAM PRANITH KUMAR - - - 1602-17-736-087

MUSTHYALA SAI KIRAN - - - 1602-17-736-098

RAI VAMSHI KIRSHNA - - - 1602-17-736-116

PIDAMARTHI VINOD KUMAR - - - 1602-17-736-120

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M. Venugopal Reddy

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Vasavi College of Engineering

(Autonomous)

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Certificate

This is to certify that the project report entitled
CFD Study on Cavitation of a Marine Propeller

is a bonafide record of the project work done by

Prathyusha Pothe 1602-17-736-088

Sushma P 1602-17-736-113

Tharaya Srigiri 1602-17-736-115

in the *Department of Mechanical Engineering* during the
academic year *2020-21* in partial fulfilment for the degree
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Associate Professor

Mechanical Engineering Dept.

Vasavi College of Engineering

Hyderabad-500 031

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Professor & Head of

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Dr T RAMAMOHAN RAO

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OSMANIA UNIVERSITY IBRAHIMBAGH,
HYDERABAD**

CERTIFICATE

This is to certify that the Major project report entitled "CFD Analysis for Enhancement of Heat Transfer by Optimizing the Design and Working Fluid of a CPC Solar Collector" is a bonafide record of a major project carried out by

Kattela Preetham	1602-17-736-089
Satvik Dosapati	1602-17-736-104
Penumarthi Surya Vamshi	1602-17-736-112

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Dr. CH. V. K. N. S. N Moorthy

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Professor, Associate Director R & D

MECHANICAL ENGINEERING

VASAVI COLLEGE OF ENGINEERING

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**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
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IBRAHIMBAGH, HYDERABAD**


CERTIFICATE

This is to certify that the project report entitled "DEVELOPMENT OF REGRESSION MODEL OF PERFORMANCE OF IC ENGINE USING DIESEL" is a bonafide record of a project carried out by

B. SRINIVAS REDDY --- 1602-17-736-109
M. SAI NITHIN --- 1602-17-736-101
B.SATHVIK REDDY --- 1602-17-736-103

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CERTIFICATE

This is to certify that the project report entitled "**Design and Analysis of High Speed Milling Spindle**" is a bonafide record of a project carried out by

Begari Sirisha	--- 1602-17-736-107
Madana Srujan Kumar	--- 1602-17-736-110
Perika Moses Sumith Babu	--- 1602-17-736-111

in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous) (affiliated to Osmania University), Hyderabad during the academic year 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.


Dr. K. Kishore

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MECHANICAL ENGINEERING
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Dr. T. Ramamohan Rao

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VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

AFFILIATED TO OSMANIA UNIVERSITY

IBRAHIMBAGH, HYDERABD

CERTIFICATE

This is to certify that the major project report entitled "Modelling and CFD Analysis of 4.6% Scaled Flying V Aircraft" Is a bona-fide record of a major project carried out by

Makam Sri Lalith Madhav

(1602-17-736-108)

Mohammed Muneeb Ali

(1602-15-736-082)


in the Department of Mechanical Engineering, Vasavi College of Engineering (Autonomous), (affiliated to Osmania University, Hyderabad), during the academic year of 2020-21 in partial fulfillment for the award of Degree in Bachelor of Mechanical Engineering.



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Mini Project Certificates

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

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CERTIFICATE

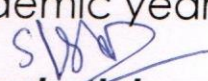
This is to certify that the Mini project report entitled
“**MODELLING AND ASSEMBLY OF PIPE VICE**” is a
bonafide record of a mini project carried out by

SAI TEJA - - - 1602-18-736-037

SANTOSH - - - 1602-18-736-039

SAYEED KHAN- - - 1602-18-736-040

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academic year 2020-21.


Dr. Venkatiah

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**VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)
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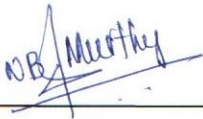
CERTIFICATE

This is to certify that the Mini project report entitled "Design and Analysis of a Cooling System for a Continuously Variable Transmission in an All-Terrain Vehicle" is a bonafide record of a mini project carried out by

Sai Jaswanth --- 1602-18-736-036


Sai Harshith --- 1602-18-736-035

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Mr. Sambha Murthy

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CERTIFICATE

This is to certify that the Mini project report entitled
“3D Modeling of Independent Suspension System for
off-road vehicle”
is a bonafide record of a mini project carried out by

D.Anilkumar - - - 1602-18-736-302
G.Venkatswamy - - - 1602-18-736-301
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CERTIFICATE

This is to certify that the Mini Project report entitled
“**Analysis of stress in CVT belt**” Bonafide record of
a mini project carried out by

N. AKHIL ---1602-18-736-004
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This is to certify that the Mini Project report entitled “**Analysis on 4-wheeler Brake Pedal**” Bonafide record of a mini project carried out by

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This is to certify that the Mini project report entitled
"STEAM POWERED ELECTRICITY GENERATOR"
is a bonafide record of a mini project carried out by

SAIRAM	1602-18-736-096
PRAWEEEN	1602-18-736-083
RAVINDER	1602-18-736-309

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This is to certify that the Mini project report entitled
"Design And Analysis Of Mould For Plastic Basket
Using Solidworks"
is a bonafide record of a mini project carried out by


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This is to certify that the Mini project report entitled
“**DESIGN OF CRANK AND SLOTTED LEVER QUICK RETURN
MECHANISM**” is a bonafide record of a mini project
carried out by

Shaik.Uzeif	--- 1602-18-736-304
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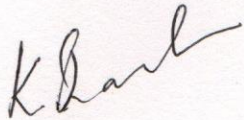
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CERTIFICATE

This is to certify that the Mini project report entitled "Supply Chain Management
In Indian Automotive Industry"
is a bonafide record of a mini project carried out by

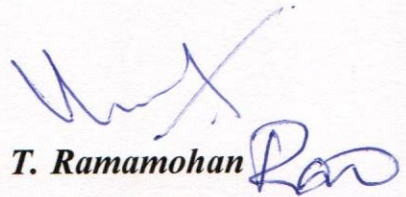
K. Dishank - - - 1602-18-736-011
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CERTIFICATE

This is to certify that the Mini project report entitled
"Design And Motion Analysis Of Piston Assembly Using
Solidworks"
is a bonafide record of a mini project carried out by

D. S. Shashank - - - 1602-18-736-041
E. Suraj Varma - - - 1602-18-736-048
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This is to certify that the Mini project report entitled "Design & Analysis of Air-Intake of a Formula SAE Vehicle" is a bonafide record of a mini project carried out by

SRIKAR MADDULA - - - 1602-18-736-045

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This is to certify that the Mini project report entitled "**Design of fertilizer sprayer**" is a bonafide record of a mini project carried out by

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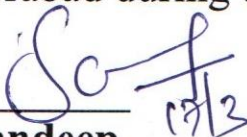
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This is to certify that the Mini Project report entitled
“Steady State Thermal Analysis of Disc Brake ”
Bonafide record of a mini project carried out by

Gouravaram Abhinav Reddy ---1602-18-736-001
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CERTIFICATE

This is to certify that the Mini project report entitled
**“Review on Design and Development of Composite
Drive Shaft”**

is a bonafide record of a mini project carried out by

E.RAJU	---1602-18-736-032
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This is to certify that the Mini project report entitled "**DESIGN AND ANALYSIS OF CONNECTING ROD USING ALUMINIUM ALLOY 7068 T6**" is a bonafide record of a mini project carried out by

Mohammed Khizar Ali Ansari - - - 1602-18-736-027
Manideep Raju - - - 1602-18-736-025

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CERTIFICATE

This is certified that the Mini project report entitled "DESIGN OF UNMANNED AERIAL VEHICLE" is a bonified record of a mini project carried out by

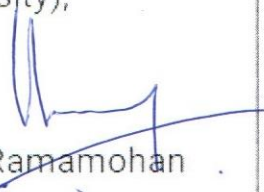
A. Uday Kiran - 1602-18-736-053

M. Uday Kiran - 1602-18-736-054

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K. Veladri
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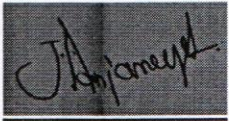
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This is to certify that the Mini project report entitled "*DESIGN OF NON-RETURN VALVE*" is a bonafide record of a mini project carried out by

K Abhi Ram 1602-18-736-002
A Haricharan 1602-18-736-015
K Karthik 1602-18-736-018

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Dr. J Anjaneyulu
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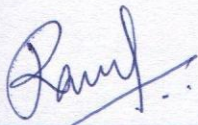
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This is to certify that the Mini project report entitled "**CFD ANALYSIS OF NACA 4412 AEROFOIL**" is a bonafide record of a mini project carried out by

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T. SREEKAR SAI PAVAN	--- 1602-18-736-044
M. TRINESH	--- 1602-18-736-052

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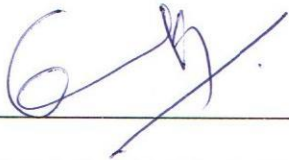
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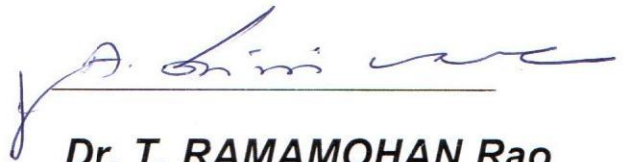
This is to certify that the Mini project report entitled "**Design and Analysis of toggle jack**" is a bonafide record of a mini project carried out by

JALLI LAKSHMI PRASHANTHI - - - 1602-18-736-021
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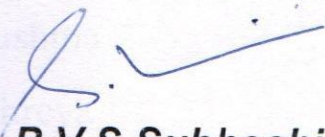
This is to certify that the Mini project report entitled
"DESIGN AND ANALYSIS OF FOUR BAR MECHANISM" is
a bonafide record of a mini project carried out by

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This is to certify that the Mini project report entitled "HUMAN POWERED VEHICLE DESIGN" is a bonafide record of a mini project carried out by

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K.Vamshi - - -1602-18-736-055
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Theme Based Project Certificates

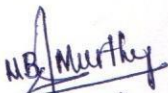
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This is to certify that the Theme based project report entitled "**Design & Thermal Analysis of Fins**" is a bonafide record of a Theme based project work carried out by

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This is to certify that the Theme based project report entitled
“*DESIGN ANALYSIS OF COMPOSITE LEAF SPRING FOR
AUTOMOTIVE VEHICLE*” is a bonafide record of a Theme based
project work carried out by

K. J. SUJAN KUMAR REDDY - 1602-018-736-017

G. ABHINAV REDDY - 1602-018-736-001

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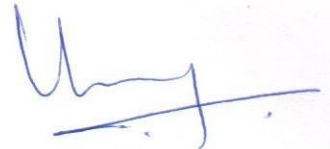
This is to certify that the Theme Based project report entitled
“**FRICTIONLESS MAGNETIC BRAKING
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This is to certify that the Theme Based Project entitled "Modeling and Analysis of Articulated Robotic Arm" is a bonafide record of a Theme Based Project carried out by

SHASHANK DEV D S - - - 1602-18-736-041

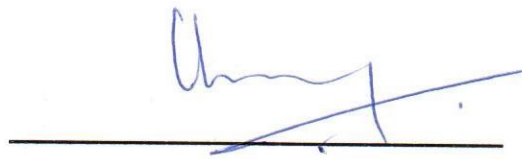
SUMITH CHANDRA AKKINAPELLI - - - 1602-18-736-047

SURAJ VARMA EPURI - - - 1602-18-736-048

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