



**Dr. T. Thimmaiah Institute of Technology**

**Oorguam Post, K.G.F-563120**

(Approved by AICTE, New Delhi, Affiliated to VTU-Belagavi,  
Approved by Govt. Of Karnataka and ISO 21001-2018 Certified)

**DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING.**

**CERTIFICATE**

Certified that the Internship Work entitled "*IOT Based Voice Control Robot Car Using Firebase*" is a bonafied work carried out by **Sindhu G.- 1GV17EC039, Spandana K.N.- 1GV17EC042, V. Prachi Bohra- 1GV17EC049 and Wajiha Sultana – 1GV17EC054** in the partial fulfilment for the award of degree of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2020-2021. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirement in respect of **Internship- 17EC84** prescribed for the Bachelor of Engineering Degree.

.....  
Signature of HOD and guide

Prof. Vijaya Bharathi M.  
Head of the Department  
Dept. of Electronics and Communication Engg.  
Dr. T. Thimmaiah Institute of Technology  
Name of Examiner K.G.F.- 563 120.

1. Shashi Kiran S
2. Manjushree K Chavan

[MANJUSHREE K CHAVAN]

.....

Signature of Principal  
PRINCIPAL  
Dr. Syed Ariff  
Dr. T. Thimmaiah Institute of Technology  
Oorguam, K. G. F- 563120

Signature with Date

1. Dr. T. Thimmaiah
2. Dr. T. Thimmaiah

PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorguam, K.G.F. - 563 120.



# CERTIFICATE OF COMPLETION

This Internship certificate for brilliant and consistent high standards of workmanship signed this day by the duly authorized officers is proudly presented to

**Ms. SINDHU G**

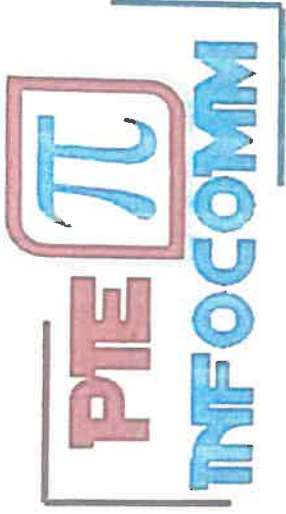
For her successful completion of Internship in  
**INTERNET OF THINGS**

under Pie Infocomm Private Limited from 18th AUGUST to 29th SEPTEMBER 2020. It led to completion of project titled **"IOT BASED VOICE CONTROL ROBOT CAR USING FIREBASE"**.



Vijay Kumar Jaiswal  
(Director)

  
PRINCIPAL  
Dr. T. Thirumaiah Institute of Technology  
Oorgaam, K.G.F. - 563 120.



# CERTIFICATE OF COMPLETION

This Internship certificate for brilliant and consistent high standards of workmanship signed this day by the duly authorized officers is proudly presented to


**Ms. SPANDANA K N**

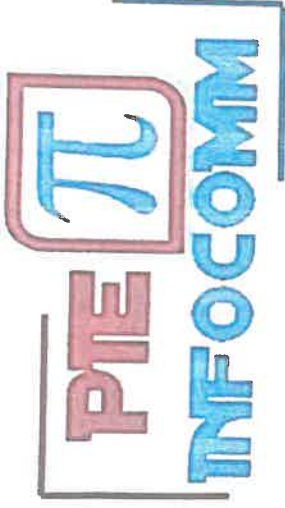
For her successful completion of Internship in  
**INTERNET OF THINGS**

under Pie Infocomm Private Limited from 18th AUGUST to 29th SEPTEMBER 2020. It led to completion of project titled "IOT BASED VOICE CONTROL ROBOT CAR USING FIREBASE".



**Vijay Kumar Jaiswal**  
(Director)

  
PRINCIPAL  
Dr. T. Thimmalah Institute of Technology  
Oorgaam, K.G.F. - 563 120.



# CERTIFICATE OF COMPLETION

This Internship certificate for brilliant and consistent high standards of workmanship signed this day by the duly authorized officers is proudly presented to

**Ms. V. PRACHI BOHRA**

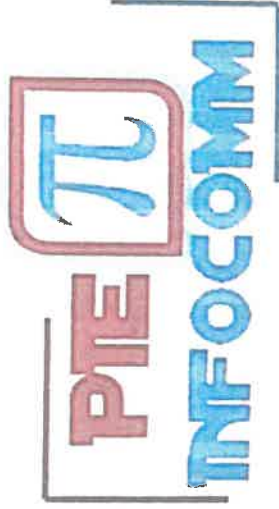
For her successful completion of Internship in  
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under Pie Infocomm Private Limited from 18th AUGUST to 29th SEPTEMBER 2020. It led to completion of project titled "IOT BASED VOICE CONTROL ROBOT CAR USING FIREBASE".



Vijay Kumar Jaiswal  
(Director)

  
PRINCIPAL  
Dr. T. Thirumalaiah Institute of Technology  
Oorgaum, K.G.F. - 563 120.



## CERTIFICATE OF COMPLETION

This Internship certificate for brilliant and consistent high standards of workmanship signed this day by  
the duly authorized officers is proudly presented to

**Ms. WAJIHA SULTANA**

For her successful completion of Internship in  
INTERNET OF THINGS

under Pie Infocomm Private Limited from 18th AUGUST to 29th SEPTEMBER 2020. It led to completion of  
project titled "IOT BASED VOICE CONTROL ROBOT CAR USING FIREBASE".



**PRINCIPAL**  
Dr. T. Thimmaiah Institute of Technology  
Oorgaam, K.G.F. - 563 120.

Vijay Kumar Jaiswal  
(Director)

**Visvesvaraya Technological University**  
**Belagavi, Karnataka-590 018**

2020-2021



**An Internship Report**  
**(17MN84) on**

**"SANDSTOWING METHOD IN HUTTI GOLD MINES Ltd"**

**Presented**

**By**

CHARAN PM (1GV17MI006)  
GUNTAMADUGU CHANDU (1GV17MI007)  
SRINIVAS K (1GV17MI024)  
SURESH KULLURU (1GV18MI406)

**Bachelor of Engineering**  
**in**

**Mining Engineering**

**Under the Guidance of**

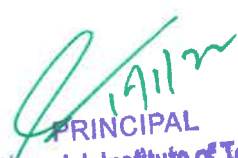
**Mr. VIJAYRAGHAVAN**

**Associate Professor**

**Department of Mining engineering,**

**Dr. TTIT. KGF**



  
PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaum, K. G. F- 563120

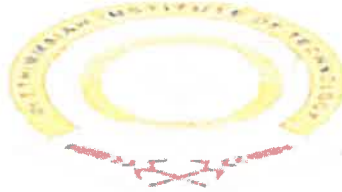
**Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY**

**(Formerly Golden Valley Institute of Technology)**

**Department of Mining Engineering**

**Kolar Gold Fields – 563120**


# Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

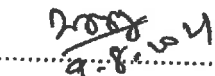



Formerly Golden Valley Institute of Technology  
Oorgaum Kolar Gold Fields -563120  
DEPARTMENT OF CIVIL ENGINEERING

## CERTIFICATE


Certified that the internship work entitled "HUTTI GOLD MINES Ltd" A bonafide work carried out by CHARAN PM (1GV17MI006), GUNTAMADADUGU CHANDU (1GV17MI007), SRINIVAS K (1GV17MI024), SURESH KULLURU (1GV18MI406) in the partial fulfilment for the award of degree of Bachelor of Mining engineering in Mining engineering of the Visvesvaraya technological University Belgaum during the year 2020-2021 it is satisfied that all corrections suggestions indicated for the assessment have been incorporated in the report deposited in the Department of library the internship report has been approved as it satisfies the academics requirement in respect of internship 17MN84 prescribed for the Bachelor of engineering degree


  
..... 9/8/2021  
Signature of Guide  
Mr. VIJAYRAGHAVAN

  
..... 9-8-2021  
Signature of HOD  
Dr. MANAS  
MUKHOPADHYAY

  
..... 09/08/2021  
Signature of Principal  
Dr. SYED ARIFF

Name of Examiners  
1.  Maturdhan - J  
2.

Signature with Date  
1.  9/8/21  
2.

  
PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaum, K. G. F- 563120

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
BELAGAVI - 590018  
2020-2021



A

**Internship Report**

on

**“ IOT Based Voice Control Robot Car Using Firebase ”**

Submitted in the partial fulfilment of the requirement for the VIII Semester  
Internship – 17EC84 for the award of degree of

**Bachelor of Engineering**

in

**Electronics and Communication Engineering**

by

SINDHU G	1GV17EC039
SPANDANA K. N.	1GV17EC042
V. PRACHI BOHRA	1 GV17EC049
WAJIHA SULTANA	1GV17EC054

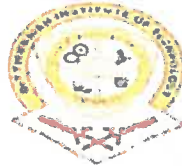
Carried at

**Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY**  
Under the Guidance of

**Internal Guide**  
Prof. VIJAYA BHARATHI M  
HOD, Assoc. Prof. Dept. of E & C,

**External Guide**  
Mr. LOKESH  
Pie Infocomm Company.

**Dr. T. Thimmaiah Institute of Technology**  
Oorgaum Post, K.G.F – 563120



*19/1/22*  
**PRINCIPAL**  
Dr. T. Thimmaiah Institute of Technology  
Oorgaum, K.G.F. - 563 120.

(Approved by AICTE, New Delhi, Affiliated to VTU-Belagavi,  
Approved by Govt. Of Karnataka and ISO 21001-2018 Certified)



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**jnana Sangama, Belgaum – 590018**



**A INTERNSHIP REPORT**

**ON**

**“STUDY OF ADDITIVE MANUFACTURING AND PLC”**

**SUBMITTED IN FULFILLMENT FOR THE AWARD OF THE DEGREE OF  
BACHELOR OF ENGINEERING  
IN**

**MECHANICAL ENGINEERING**

**SUBMITTED BY**

**ARBIN TAJ S**

**1GV16ME003**

**UNDER THE GUIDANCE OF**

**Mr. MANJUNATHA BABU N S**

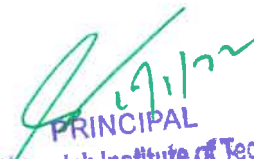
**Associate prof.**

**Dept. of Mechanical Engineering**



**Dr. T THIMMAIAH INSTITUTE OF TECHNOLOGY  
OORGAUM, KOLAR GOLD FIELDS - 563120**

**DECEMBER 2019-2020**

  
**PRINCIPAL**  
**Dr. T. Thimmaiah Institute of Technology**  
**Oorgaum, K. G. F- 563120**

**Dr. T THIMMAIAH INSTITUTE OF TECHNOLOGY**  
**Oorgaum, Kolar Gold Fields – 563120**  
**Department of Mechanical Engineering**



**CERTIFICATE**

This is to certify that the internship report Entitled “STUDY OF ADDITIVE MANUFACTURING AND PLC” has been carried out by: **ARBIN TAJ S - 1GV16ME003**, the students of **Dr. T Thimmaiah Institute of Technology** in fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visvesvaraya Technological University, Belgaum during the year 2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the department library.

**Guide**

Mr. Manjunatha Babu N S

**HOD**

Dr. P D Sudersanan

**Principal**

Dr. Syed Ariff

1. Dr. XLARA SIMHA-C

2. Saupath.A

3.

4.

5.

10/1/22  
**PRINCIPAL**  
**Dr. T. Thimmaiah Institute of Technology**  
**Oorgaum, K. G. F- 563120**

18/8/2020

18/08/2020

# DR.T.THIMMAIAH INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

OORGAUM, KOLAR GOLD FIELDS, KARNATAKA-563120

(Affiliated to Visvesvaraya Technological University, Belgavi)



## CERTIFICATE

Certified that the Internship Work entitled "SEQUENCES OF CONSTRUCTION IN HIGH RISE RESIDENTIAL BUILDING" is a bonafied work carried out by BHUVANESHWARI B (IGV17CV006), BRIDGIT CHAWANG T (IGV17CV007), HAOBJAM ABOKSON SINGH (IGV17CV010), KHANGEMBAM MALEMTHABA (IGV17CV011) in the partial fulfillment for the award of Degree of Bachelor of Engineering in Civil Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020-2021. It is certified that all corrections/suggestions indicated for the assessment have been incorporated in the report deposited in the departmental library. The report has been approved as it satisfies the academic requirement in respect of Internship Work – 17CV84 prescribed for the Bachelor of Engineering Degree.

..... 09/09/2021  
Signature of Guide  
Mrs. Silviya L

..... 09/09/2021  
Signature of HOD  
Dr. Ramesh K  
Head of the Department  
Dept of Civil Engineering

..... 09/09/2021  
Signature of Principal  
Dr. Syed Ariff  
PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology

Name of Examiners T. Thimmaiah Institute of Technology Oorgaum, K.G.F. - 563 120. Signature of Candidate

1. Praaveen. L
2. Sowmya. L

2

..... 19/1/22  
PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaum, K. G. F- 563120



20<sup>th</sup> April 2021

Dear Sir/ Madam,

This is to certify that Ms. Bridgit Chawang T. (Regd. No: 1GV17CV007), pursuing B.E (Civil Engineering) from Dr. T. Thimmaiah Institute of Technology has completed her internship at "Prestige Finsbury Park". She did her internship under the guidance of Mr. Durgaprasad K. (DGM - Projects). The period of internship was from 08<sup>th</sup> March 2021 to 08<sup>th</sup> April 2021.

Her performance and conduct during the period was commendable.

We wish her all the best for her future endeavours.

For Prestige Estates Projects Ltd,

Lt Col Milan Khurana (Retd)  
Executive Director - HR, Admin & IT

PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaum, K. G. F- 563120



20<sup>th</sup> April 2021

Dear Sir/ Madam,

This is to certify that Ms. Bhuvaneshwari B. (Regd. No: 1GV17CV006), pursuing B.E (Civil Engineering) from Dr. T. Thimmaiah Institute of Technology has completed her internship at "Prestige Finsbury Park". She did her internship under the guidance of Mr. Durgaprasad K. (DGM - Projects). The period of internship was from 08<sup>th</sup> March 2021 to 08<sup>th</sup> April 2021.

Her performance and conduct during the period was commendable.

We wish her all the best for her future endeavours.

For Prestige Estates Projects Ltd,

Lt Col Milan Khurana (Retd)  
Executive Director - HR, Admin & IT

PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaam, K. G. F- 563120



20<sup>th</sup> April 2021

Dear Sir/ Madam,

This is to certify that Mr. Khangembam Malemthaba (Regd. No: 1GV17CV011), pursuing B.E (Civil Engineering) from Dr. T. Thimmaiah Institute of Technology has completed his internship at "Prestige Finsbury Park". He did his internship under the guidance of Mr. Durgaprasad K. (DGM - Projects). The period of internship was from 08<sup>th</sup> March 2021 to 08<sup>th</sup> April 2021.

His performance and conduct during the period was commendable.

We wish him all the best for his future endeavours.

For Prestige Estates Projects Ltd,

Lt Col Milan Khurana (Retd)  
Executive Director - HR, Admin & IT

PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaum, K. G. F- 563120



20<sup>th</sup> April 2021

Dear Sir/ Madam,

This is to certify that Mr. Haobijam Abokson Singh (Regd. No: 1GVI7CV010), pursuing B.E (Civil Engineering) from Dr. T. Thimmaiah Institute of Technology has completed his internship at "Prestige Finsbury Park". He did his internship under the guidance of Mr. Durgaprasad K. (DGM - Projects). The period of internship was from 08<sup>th</sup> March 2021 to 08<sup>th</sup> April 2021.

His performance and conduct during the period was commendable.

We wish him all the best for his future endeavours.

For Prestige Estates Projects Ltd,

Lt Col Milan Khurana (Retd)  
Executive Director - HR, Admin & IT

  
19/4/21  
PRINCIPAL  
Dr. T. Thimmaiah Institute of Technology  
Oorgaam, K. G. F- 563120