VISVESVARAYA TECHNOLOGICAL UNIVERSITY Jnana Sangama, Belagavi - 590 018



Internship / Professional Practice Report

on

Title of the Project

Submitted in partial fulfillment for the award of degree of

 $Bachelor\ of\ Engineering$ in

Electronics and Communication Engineering

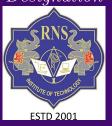
Submitted by

Student Name USN

Internship carried out at Company Name

Internal Guide

Name of guide Designation



External Guide

Name of guide Designation



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (Accredited by NBA for the Academic Years 2018-19, 2019-20 and 2020-21)

RNS INSTITUTE OF TECHNOLOGY

(AICTE Approved, VTU Affiliated and NAAC 'A' accredited)
(UG Programs - CSE, ECE, ISE, EIE and EEE have been Accredited by NBA
for the Academic Years 2018-19, 2019-20 and 2020-2021)
Channasandra, Dr. Vishnuvardhan Road, Bengaluru-560098

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi - 590 018



Internship / Professional Practice Report

Title of the Project

Submitted in partial fulfillment for the award of degree of

Bachelor of Engineering

Electronics and Communication Engineering

Submitted by

Student Name **USN**

Internship carried out at Company Name

Internal Guide

Name of quide Designation



External Guide

Name of quide **Designation**



ESTD 2001

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (Accredited by NBA for the Academic Years 2018-19, 2019-20 and 2020-21)

RNS INSTITUTE OF TECHNOLOGY

(AICTE Approved, VTU Affiliated and NAAC 'A' Accredited) (UG Programs - CSE, ECE, ISE, EIE and EEE have been Accredited by NBA for the Academic Years 2018-19, 2019-20 and 2020-2021) Channasandra, Dr. Vishnuvardhan Road, Bengaluru-560098

RNS INSTITUTE OF TECHNOLOGY

(AICTE Approved, VTU Affiliated and NAAC 'A' Accredited)
(UG Programs - CSE, ECE, ISE, EIE and EEE have been Accredited by NBA
for the Academic Years 2018-19, 2019-20 and 2020-2021)
Channasandra, Dr. Vishnuvardhan Road, Bengaluru-560098

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Accredited by NBA for the Academic Years 2018-19,2019-20 and 2020-21)



CERTIFICATE

This is to certify that the Internship/ Professional Practice work entitled "Title of the Intern Report" has been successfully carried at Intern Place by Student name bearing the usn 1RN16EC, bonafide student of RNS Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering from Visvesvaraya Technological University, Belagavi, during the year 2019-2020. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report. The Internship report has been approved as it satisfies the academic requirements in aspect of the Internship work prescribed for the award of degree of Bachelor of Engineering.

Name of the Guide Designation	Dr. Vipula Singh Head of Department External Viva	Dr. M K Venkatesha Principal
Name of the examiners		Signature with date
1		
2		

RNS INSTITUTE OF TECHNOLOGY

(AICTE Approved, VTU Affiliated and NAAC 'A' Accredited)
(UG Programs - CSE, ECE, ISE, EIE and EEE have been Accredited by NBA for the Academic Years 2018-19, 2019-20 and 2020-2021)
Channasandra, Dr. Vishnuvardhan Road, Bengaluru-560098

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Accredited by NBA for the acadamic Years 2018-19,2019-20 and 2020-21)



DECLARATION

I, Student Name bearing the USN:1RN16EC, pursuing Bachelor of Engineering in Electronics & Communication, RNS Institute of Technology, Bangalore. I hereby declare that the internship titled, "Title" has been independently carried out under the supervision and guidance of External guide, designation and Internal guide, designation. Submitted as a partial fulfilment for the award of Bachelor of Engineering degree in Electronics and Communication Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2019-20. I also declare that the internship has not been submitted previously for the award of any degree or diploma to any institution.

Student Name

1RN16EC



CERTIFICATE OF COMPLETION INTERNSHIP

We present this certificate to

SUHAS M ANGADI

In appreciation for your successful work as intern at VI Solutions, Bangalore, From 04-Jul-2019 to 03-Aug-2019 Mr. Sunil Kumar V

Mr. Sunil Kumar V Managing Director VI Solutions, Bangalore

Abstract

LATEX eases our pressure in writing thesis & reports because of its powerful features such as automatic hyphenation, table of contents, figures & tables, powerful bibliography tool, citations, Automatic Numbering of Chapter, sections, figures & tables, its beautiful fonts, professional output...

Writing too much of code for gives bad impression on LaTeX. But now we have numerous gui tools like gedit-latex-plugin, TeXmaker, Lyx & emacs, which are very much user friendly.

This VTU-project-report-template is written using popular document class, "Memoir". In the coming chapters, we hav given small help manual required for writing report & at the end about template

Acknowledgement

The joy and satisfaction that accompany the successful completion of any task would be incomplete without thanking those who made it possible. We consider ourselves proud to be a part of RNS Institute of Technology, the institution which molded us in all our endeavors.

We express our gratitude to our beloved Chairman **Dr. R N Shetty**, for providing state of art facilities.

We express our deep gratitude to **Dr. H N Shivashankar**, Director, who has always been a great source of inspiration.

We would like to express our sincere thanks to **Dr. M K Venkate-sha**, Principal and **Dr. Vipula Singh**, Professor and HOD, Department of E&CE, for their valuable guidance and encouragement throughout our program.

I extend my sincere thanks and heartfelt gratitude to my internal guide **Name**, Designation, for providing me an invaluable support throughout the period of my Internship.

I wish to express my heartfelt gratitude to my external guide **Name**, Designation place for his valuable guidance, suggestions and cheerful encouragement during the entire period of my internship.

I would like to sincerely thank all those people who have been supporting in the part of my internship at *Company*.

Finally, I take this opportunity to extend my earnest gratitude and respect to my parents, teaching and non-teaching staff of the department, the library staff and all my friends who have directly or indirectly supported me during the period of my Internship

Name1

Executive Summary

Table of Contents

Α	ostract	i
A	knowledgement	ii
E	ecutive Summary	iii
Ta	ble of Contents	iv
Li	st of Figures	\mathbf{v}
Li	st of Tables	vi
\mathbf{A}	ronyms	vii
1	Introduction	1
	1.1 About company	1
	1.2 History	
	1.3 Topic 3	
	1.4 Topic 4	
	1.5 Topic 5	
2	Project Introduction	2
3	Project Design and Development	3
4	Outcomes	4
5	Conclusion and Future scope	5
\mathbf{R}	ferences	6
\mathbf{A}	ppendices	7
Δ	Topic 1	7

List of Figures

List of Tables

Acronyms

PCB: Printed Circuit Board

Introduction

Type random text here

1.1 About company

Title: Remote servicing of IPTV using DirectFB and VNC.

1.2 History

Assume you have an IPTV in your home and it has some technical problem. It will be better if the TV technician can solve the problem remotely over Internet.

1.3 Topic 3

The project involves 2 primary objectives

- 1. Exploring VNC system module of DirectFB and building it onto the target IPTV
- 2. Extending remote accessibility of IPTV from outside LAN

1.4 Topic 4

DirectFB features and VNC features have been implemented in IPTV independently.

1.5 Topic 5

The primary goal is establishing communication between IPTV and a remote PC for remote serviceability of IPTV.

Project Introduction

Project Design and Development

Outcomes

Chapter 5 Conclusion and Future scope

References

- [1] Andrew S. Tanenbaum: Operating Systems Design and Implementation, Prentice Hall, 2006
- [2] About IPTV on Wikipedia http://en.wikipedia.org/wiki/IPTV
- [3] About VNC on Wikipedia http://en.wikipedia.org/wiki/Virtual_Network_Computing
- [4] LibVNC server http://libvncserver.sourceforge.net
- [5] DirectFB documentation http://elinux.org/DirectFB
- [6] jointSPACE documentation http://sourceforge.net/apps/mediawiki/jointspace/index.php?title=Main_Page
- [7] PuTTy on Wikipedia http://en.wikipedia.org/wiki/PuTTy
- [8] Nicola L. C Talbot and Gavin C. Cawley. A fast index assignment algorithm for robust vector quantisation of image data. *In Proceedings of the I.E.E.E. International Conference on Image Processing*, Santa Barbara, California, USA, October 1997.

Appendix A

Topic 1