

An Internship Report on
IoT (Embedded Systems)

(Title of the Semester Internship Program)

Submitted in accordance with the requirement for the degree of
Bachelor of Science

Under the Faculty Guideship of

D. Santhosh kumar

(Name of the Faculty Guide)

Department of

MECS Mrs A.V.N College

(Name of the College)

Submitted by:

DAKAMARI . Leela Vathi

(Name of the Student)

Reg.No: 720130805282

Department of Computer Science

Mrs A.V.N College

(Name of the College)

Student's Declaration

I, D. Seela Vathi a student of Bachelor of Science Program, Reg. No. 120130805282 of the Department of Computer Science College do hereby declare that I have completed the mandatory internship from 20-04-2023 to 19-07-2023 in ANTAR JOT (Name of the intern organization) under the Faculty Guidship of D Sandhook kumar (Name of the Faculty Guide), Department of Computer Science, MRS A.V.N College (Name of the College)

D. Seela Vathi
(Signature and Date)

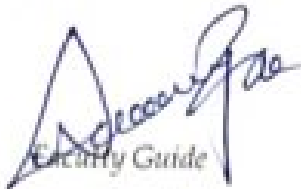
Official Certification

This is to certify that D. Keerthi Vathi (Name of the student) Reg. No. 120130805282 has completed his/her Internship in Antan IoT (Name of the Intern Organization) on IoT (Embedded development) (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of BSC (MECS) in the Department of Mrs A.V.N College (Name of the College).

This is accepted for evaluation.

(Signatory with Date and Seal)


Endorsements


Security Guide


Head of the Department

Head of the Department of
Physics, Electronics and Computer Science
Mrs. A.V.N. COLLEGE
VISAKHAPATNAM-530001

Principal


PRINCIPAL
Mrs. A.V.N. COLLEGE
VISAKHAPATNAM

Certificate from Intern Organization

This is to certify that D. Keekvathi (Name of the intern)
Reg. No. 720130805282 of Mrs. Avn College (Name of the
College) underwent internship in Antary JOT (Name of the
Intern Organization) from 20-04-23 to 19-07-23

The overall performance of the intern during his/her internship is found to be
Satisfactory (Satisfactory/Not Satisfactory).

[Handwritten Signature]
19/07/23

Authorized Signatory with Date and Seal



ANTAR IoT PRIVATE LIMITED

Registered Address :
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530048. Mail Id: sales@antar-iot.com
Phone No. : +919618049098

Date: 18th July 2023,
Visakhapatnam.

TO WHOMEVER IT MAY CONCERN

This is to certify that **Ms. DAKAMARRI LEELAVATHI**
Reg no: **7191130805353** a student of Mrs. A.V.N College, Visakhapatnam has
successfully completed the **3 Months of Internship** from **20th April 2022 to 19th**
July 2023 on IoT (Embedded Development) at ANTAR IoT Pvt.Ltd. During the
period of her Internship programme with us she was found punctual, hardworking
and innovative.

Regards,

Jaswanth B,
Sr.Engineer IIoT,
ANTAR IoT Pvt.Ltd,
Visakhapatnam.


19/07/23

Authorized Signature



Anything. Anywhere. Stay Connected!

Mail Id : sales@antar-iot.com | Web : <https://www.antar-iot.com/>

Acknowledgements

I am glad to render my thankful acknowledgements to the APSHE for giving this wonderful opportunity to us and I am also thankful to the Andhra university. I sincerely acknowledge to

principal of MRS A.V.N college for giving me an opportunity to work on this internship programme.

I take to this opportunity to Express my work on this internship programme and also I would like to thank M.S.D. Santhosh Kumar, Head of department Computer Science for motivating me.

I would like to acknowledge my sincere thanks to the company ANTAR IOT for giving me the opportunity. Last but not the least, I thank one and all who have contributed the part in helping me in my endeavor to accomplish the object of third of the internship project.

Contents

CHAPTER-1	Executive Summary
CHAPTER-2	Overview of the Organization
CHAPTER-3	Internship part
CHAPTER-4	<ul style="list-style-type: none">• Activity log• Weekly report
CHAPTER-5	<p>Out Comes Descriptions</p> <ul style="list-style-type: none">• Environment Experience• Real time technical skills• Managerial skills• Improvement of communication skills• Enchance of abilities• Technological Developmenty.

CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have a brief executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

This internship report provides a comprehensive overview of the learning experiences and achievement during the internship period. The internship took place at ANTA IoT, a leading technology firm at IoT (Embedded System). Throughout the internship the primary goal is to gain practical knowledge and hands on skill related to testing procedure, installation protocols and the programming aspects of Arduino.

Learning objectives and outcomes Achieved :-

- ① Understanding Testing procedures :- By working closely with the testing team, I successfully acquired knowledge of various testing methodologies, Bug reporting procedures.
- ② Installation process proficiency :- Under the guidance of installation specialists, I learned about system setup, configuration and trouble shooting.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

Introduction of the organization:-

ANTAR IOT is a Technology company specializing in the internet of things and Next-generation technologies. ANTAR design, develop and manufacture a range of secure, high quality, technologically advanced smart products which are very easy to use & results in delightful customer experience.

Mission, Vision and Values of the organization

Mission:- They design, develop, manufacture cost effective smart products that are simple, secure easy to use and relevant leveraging our IP in the IOT space to make life more convenient for people.

Vision:- To provide innovative smart products that our customers would prefer and love using results in delightful customer experience.

Values:- Customer delight, quality, Integrity.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.






During my internship at ANSTAR IOT, I had the opportunity to gain valuable Experience and insights into the dynamic world of software development and project management. This chapter outlines the various activities and responsibilities I undertook during my internship, including details of working conditions, the weekly work schedule, equipment used and task performed.

Working condition :- The working condition at ANSTAR IOT was professional and collaborative. The office space was well lit and designed to encourage team work & productivity.

Weekly work schedule :- As an Intern, I followed a regular 10-5 work schedule, Monday to Saturday I had the flexibility to adjust my hours to accommodate learning sessions or attend team meetings.

Equipment used :- I was provided with a dedicated work station equipment with a high performance desktop computer, dual monitors and all the tools.

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Introduction and Interacting with Company's Employees	Communication.	
Day -2	Documentation on Blue-ray laser distance sensor	Search about blue-ray sensors and made a document on it	
Day -3	Documentation on Blue-ray laser distance sensor	Search about blue ray sensors and prepare a document on it	
Day -4	Learning mean stack basics, concepts and introduction	learnt what is MEAN STACK and concepts in it	
Day -5	Refer to the documents by Company (IOT and SAMS)	known about IOT Systems and SAMS project	
Day -6			

WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done: Arduino programming and company project view.

Detailed Report:

The primary objective of the first week of internship is learning basics about Arduino programming. Install Arduino IDE Software in my computer and practise Arduino programs.

First of all understand the Arduino UNO Board and the components in it. Arduino UNO Board has ATMEGA micro controller, power Jack point, USB Connector, Crystal oscillator, and pins.





Over View Company's HOT, METAL, LAPEL

project and briefly understand

what is the whole project and identifying client's problem and Company's proposed the solution for that

problem.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1			
Day-2	Documentation on Blue-ray laser distance sensor	Search about blue-ray sensor and made a document on it	
Day -3	Documentation on Blue-ray laser distance sensor	Search about blue rays sensors and prepare a document on it.	
Day -4	Learning MEAN STACK basics, concepts and Introduction	learn what is MEAN STACK and concepts in it.	
Day -5	Refer to the documents by Company. (IOT and SAMS)	know about IOT systems and SAMS project.	
Day -6			

WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done: Documentation

Detailed Report:

In the second week of internship I used to search on Blue-ray laser sensors. I was searched on how Blue-ray laser sensors works a better than red-lay laser sensors prepared a brief document on it's functionality and working.

Identify some best Blue-ray laser sensors that are available in the market.

Overview the IoT and SAMS documents Thoroughly Read the documents which are given by company

Briefly Explain the understandable point and concepts in the documents to the Sr. Engineer at the Company.