

DESIGN & DEVELOPMENT OF ENGINEERING PRODUCTS

AN INTERNSHIP REPORT

Submitted by

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190233119001

In partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

in

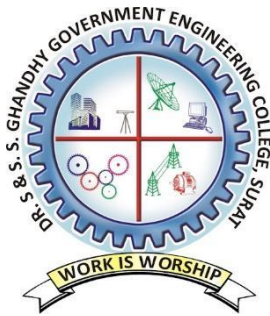
Mechanical Department



Dr. S. & S. S. Ghandhy Government Engineering College, Surat.

Gujarat Technological University, Ahmedabad

April, 2022



Dr. S. & S. S. Ghandhy Government Engineering College,

near Vanita Vishram Swimming Pool, Majura Gate, Ring Road, Surat.

CERTIFICA TE

This is to certify that the project report submitted along with the project entitled **CAD/CAM ENGINEERING INTERNSHIP** has been carried out by **Jain Mayank Gautam** under my guidance in partial fulfillment for the degree of Bachelor of Engineering in Mechanical Engineering, 8th Semester of Gujarat Technological University, Ahmadabad during the academic year 2021-22.

Prof. B. C. Patel

Internal Guide

Prof. R. N. Mehta

Head of the Department

Industry Letter Head



"Deliver More than Promised"**CAD | CAM | CAE**

- Software Sales
- Engineering Services
- Training

SIPL2022_101

Date : 11 / 04 / 2022

To Whom It May Concern

Dear Sir/Mam,

This letter is to certify that **Mr. Jain Mayank Gautam** studying in 8th semester, Mechanical Engineering Department of **Dr. S & SS Ghandhy Government Engineering College** has successfully completed **12 Weeks / 3 Months Industrial Internship Program** at **SOPAN Infotech Private Limited**. The duration of the Internship will be from **10 January 2022** to **10 April 2022** under Supervision and Guidance of **Mr. Ankit Desai**.

During the Internship period, he worked on the project entitled "**Design & Development of Engineering Product**" and he was found punctual, hardworking and inquisitive.

We wish him a bright future and all success in his professional life.

Management,

SOPAN Infotech Private Limited,

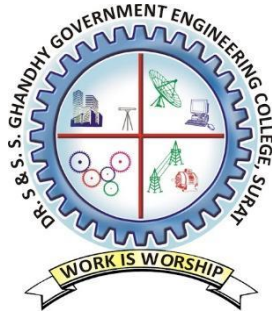
Authorized Signature

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Dr. S. & S. S. Ghandhy Government Engineering College,
near Vanita Vishram Swimming Pool, Majura Gate, Ring Road, Surat.

DECLARATION

We hereby declare that the Internship / Project report submitted along with the Internship entitled **<Internship / Project Title>** submitted in partial fulfillment for the degree of Bachelor of Engineering in Mechanical Engineering to Gujarat Technological University, Ahmedabad, is a bonafide record of original project work carried out by me at Sopan Infotech Pvt.. Ltd. under the supervision of Prof. B. C. Patel and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student

Sign of Student

1. Jain Mayank Gautam

ACKNOWLEDGEMENT

I wish to express my sincere gratitude to our Industrial Supervisor **Mr. Ankit Desai, Mr. Pankaj Pawar, Mr. Vishal Patil & Mr. Mahek Mistry** for continuously guiding me at the company and resolving all my doubts with patience. I would also like to thank my Internal Guide **Prof. B. C. Patel** for helping us throughout internship by giving me the necessary suggestions and advices along with their valuable co-ordination in completing this internship.

I would like to thank my parents, friends, colleagues and all the members of the GEC, Surat for their precious support and encouragement which they had provided in completion of my internship. In addition to that, I would also like to mention the company personals who gave me the permission to use and experience the valuable resources required for the internship.

Thus, in conclusion to the above said, I once again thank the staff members of **Sopan Group Pvt. Ltd. (including both S.I.E.D. & S.I.T.)** for their valuable support in completion of my internship.

Thank You.

Jain Mayank Gautam

Abstract

I carried out my 12-week internship at Sopan Infotech Pvt. Ltd. It is an authorized VAR of Solidworks & ESPRIT CAM software in Gujarat. It provides Internships, Apprenticeship Trainings, CAD/CAM/CAE courses, 3d printing services, etc. to corporate employees as well as students.

The purpose of this internship was to fulfill the core requirement for the award of a Bachelor Degree in Mechanical Engineering to get a practical aspect of the theoretical work studied at the university and to understand the operations in the CAD/CAM sector and to enable students gain experience in various tasks.

I was interned at the Surat branch head office and given knowledge and insight about all the basic things needed to be known for starting any experience in industry by our trainer. I was taught and revised various topics like various tools, drawing reading, various machining operations, Solidworks advanced toolbars & tabs, etc. I gained knowledge on the above topics and developed confidence to apply them during the 12-week course of my internship.

In conclusion, this was an opportunity to develop and enhance skills & competencies in my career field which I actually achieved.

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Abbreviations

b/w: - Between

CAD: - Computer Aided Design

CAE: - Computer Aided Engineering

CAM: - Computer Aided manufacturing

Dept.: - Department

m/c: - Machine

mfg.: - Manufacturing

sldprt: - Solidworks Part

sldasm: - Solidworks Assembly

stl: - Stereolithography

pdf: - Portable Document Format

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