



A Presentation On

RAIL INFOTECH SERVICES



Presented by

Shruthi Meenakshi M

Ganessga T

Asmitha T

Nasreen Firdouse S

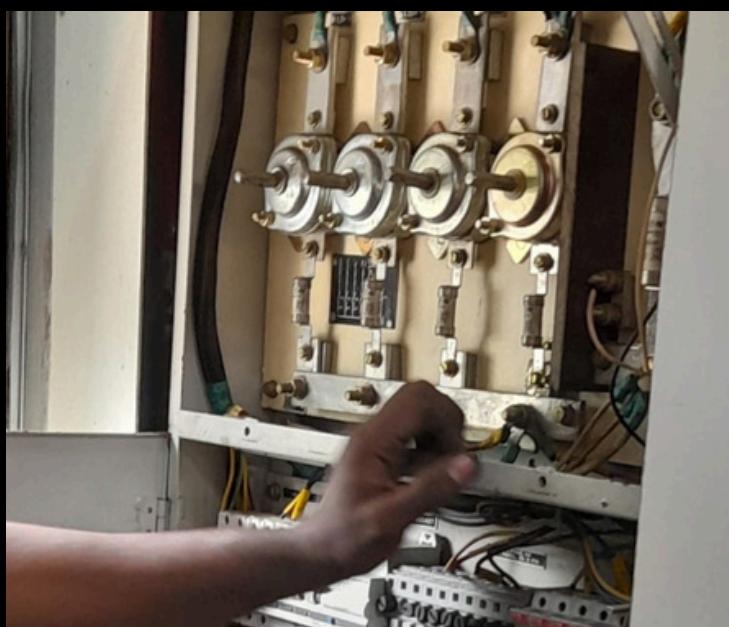
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INTRODUCTION

We have applied for an internship opportunity at Rail Infotech Services, a prestigious organization in the communication sector, this immersive internship program is a captivating fifteen-day journey through various facets of the industry. Starting with basics of railways on day one, followed by engaging experiences in areas such as track changing, signal transmission, Safety measures in railways, Networks, Track Allocation, NGN (Next Generation Network), RF (Radio Frequencies), Ticket booking, and Simple hacking techniques and understandings on signals and communication.



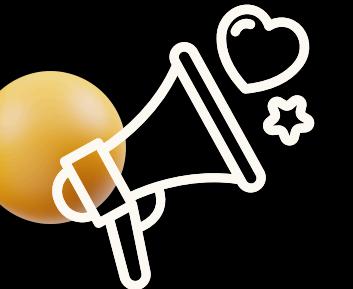


ABOUT RAIL INFOTECH SERVICES



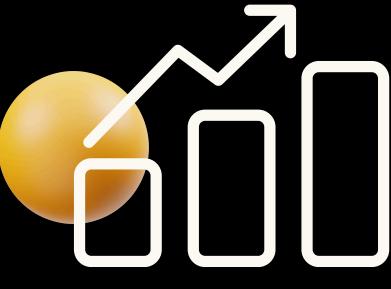
About SRWWO

Since Nation's Independence, Southern Railway Women's Welfare Organization has been working assiduously and achieved a lot in rendering remarkable and dedicated services to Railwaymen and to their wards. SRWWO engages in women empowerment to achieve the goal of women self-sufficiency and non-dependency.



Rail Infotech in SRWWO

Rail Infotech Services the one and only Project hub of SRWWO is amazing. Most of the computerisation process in the Department starts from this center. It was inaugurated on 10 december 1993Through Railnet, we guide academic students (MCA, ME, BE, M.SC) to do their Academic Projects here. The projects are helping the ongoing computerisation process of the Southern Railway, Madurai Division.



Rail Infotech for students

The Centre coordinates in-plant training for Engineering students from different colleges of madurai and outside. We have guided more than 2000 students doing B.E, During summer and winter vacations for inplant training. This includes seminars by prominent persons in IT and Telecommunication industry, and field visits to different departments of Railways where Railway Officers and technical heads will deliver the knowledge of work.



PROJECT DEVELOPED BY RAILNET AND IMPLEMENTED IN MADURAI DIVISION

- Engineering Contract Management & Decision Support System (ECMDSS)--- (2013)
- Quarters Management System.

- IREREPOR TS(INDIAN RAILWAYS)--- (2022)
- Interactive telephone directory system for the Division

- Automation of Station Rules.
- Personnel Management System for RPF
- Separate website for SRWWO

- Automated Staff Training Schedule.
- RPF Crime Administration

ABOUT INTERNSHIP

Duties & Responsibilities

1. Manage Ticket Booking:
 - Counting of the tickets booked and cancelled.
 - Managing customer relationships.
 - Difficulties encountering.
2. Track Changing:
 - The changing of rail tracks,
 - Receive the trains in the free tracks using points ,
 - Train data logging and signaling systems are learned

Duration

Total number of days attended is 15days.
From date is 22nd December 2023 to the date 18th January 2024.
The timings attended from 22.12.2023 to 18.01.2024 is from morning 9.00 AM to Evening 5. 00 PM.

Objective

The objective of our intern at rail infotech services is to get a practical exposure to the southern railways, and to know about the functioning of each sector, their diverse applications and the interconnection of all the sectors in satisfying various customers' needs.

INTERNSHIP OVERVIEW

Understandings

With technological advancements, electronics and communication has become an integral part of the Indian railways. This provided us the platform to integrate our theoretical knowledge with practical applications in real life scenarios.

Knowledge Gained

We learnt how the Indian Railways works and also about the various departments in Railways. We were educated about signaling and telecommunication, Interlocking plans and locking concepts.



Cutting-Edge Technology

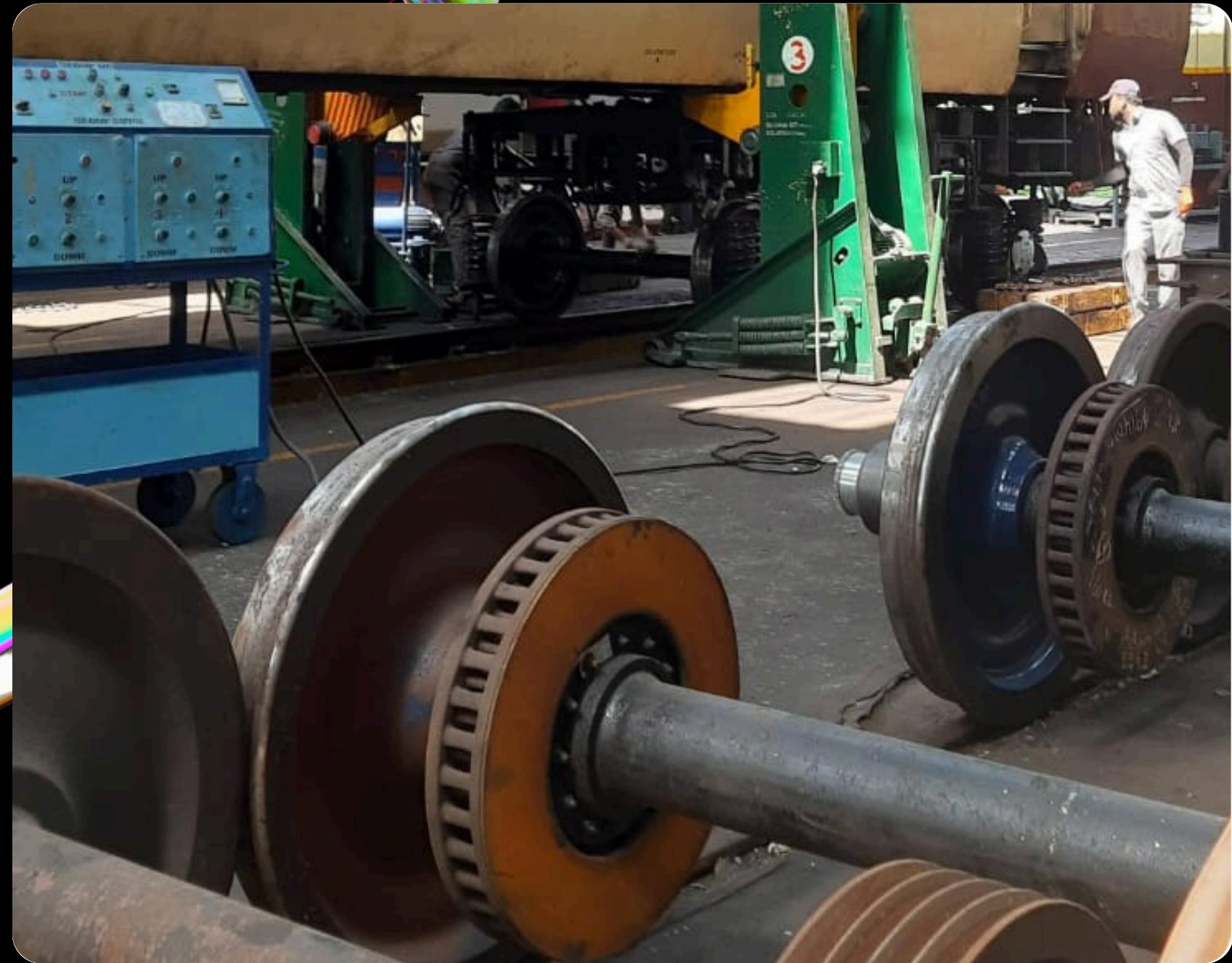
- **Signaling:** Interlocking concepts and signal transmission.
- **Track Management:** Detection devices and point mechanisms.
- **Cybersecurity:** Basics of SQL injections and data protection.
- **Soft Skills:** Professional communication and teamwork and Problem-solving in real-world scenarios.

Other Systems

Safety Systems: Use of FDS and WSP to prevent accidents. Enhancing safety through real-time monitoring.

Technological Integration: Understanding the importance of cybersecurity. Applying theoretical knowledge in railway operations.

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RAILWAY SYSTEMS

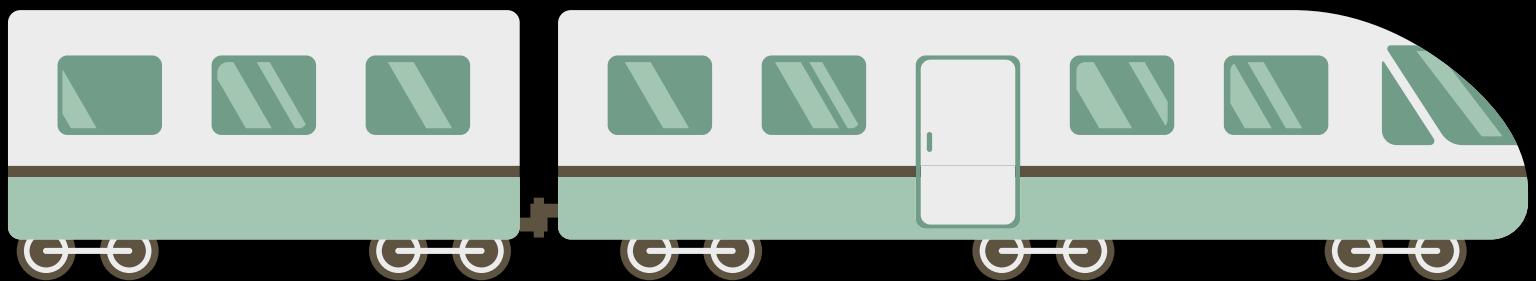


TRAIN DOORWAYS



CONCLUSION

Our internship at Rail InfoTech Services was a great learning experience. We got to see how Indian Railways uses a huge network of communication systems to keep everything running smoothly. This internship helped us develop our skills as future engineers by knowing the importance of communication and signal processing in Railway networks. We also extend our sincere gratitude to our faculty members, mentors, colleagues and everyone at Rail InfoTech for their help and support during our time out there.



THANK YOU

