



Nishant Seth

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WORK EXPERIENCE

01/05/2022 – 01/11/2022 Renningen, Baden-Württemberg, Germany

MASTER THESIS STUDENT ROBERT BOSCH GMBH

- Topic: Web Application for Planning Fatigue Tests
- Created a multi-page web application using Streamlit (Python) including various Dashboards, Prediction Algorithms, Communication Protocols, Prompts, etc.
- Web Automation Testing using Selenium.

11/2021 – 04/2022 München, Germany

WERKSTUDENT RUAG AEROSTRUCTURES

- Team: Automation and Digitalisation
- Worked on industrial automation and communication protocols (MQTT, TCP).
- Data Analysis, Manipulation, and Forecasting.
- Libraries: Numpy, Paho-MQTT, Matplotlib, Pyodbc, Socket, PyQt, and other manipulation libraries.

07/2019 – 09/2020 Bangalore, India

ENGINEER OPEN SYSTEMS INTERNATIONAL (OSI)

- Worked in the Systems Engineering division.
- Worked on SCADA technology.
- The tasks were SCADA system configuration, testing, and building.
- Worked on Automation scripts for SCADA using Python, Batch Scripting, and C# .NET.

01/2019 – 06/2019 Bangalore, India

ENGINEERING INTERN OPEN SYSTEMS INTERNATIONAL (OSI)

- Worked in the "Conversions and Builds" division.
- Worked on my final bachelor's project titled, "Reliability Evaluation of Distributed Power Systems using Object Oriented Programming".

06/2018 – 08/2018 New Delhi, India

SUMMER INTERN DEFENSE RESEARCH AND DEVELOPMENT ORGANISATION (DRDO)

- Worked in the "Scientific Analysis Group (SAG)" division of DRDO.
- Worked on SPI and UART Interfacing in Embedded Systems using AVR-Microcontrollers.

06/2017 – 08/2017 Delhi, India

SUMMER INTERN BSES YAMUNA POWER LTD.

- First introduced to SCADA Technology.
- Worked as a part of the "Networking" Team.

EDUCATION AND TRAINING

10/2020 – 11/2022 Offenburg, Germany

MSC. - COMMUNICATION AND MEDIA ENGINEERING (CME) Hochschule Offenburg

Address Offenburg, Germany | **Final grade** 1.9

08/2015 – 06/2019 Jaipur, Rajasthan, India

B.TECH - ELECTRONICS AND COMMUNICATION ENGINEERING (ECE) Manipal University Jaipur

Address Jaipur, Rajasthan, India

ADDITIONAL INFORMATION

PROJECTS

01/09/2021 – 13/02/2022

Query TSN capabilities and live parameters of TSN devices

- Master Project
- Grade: 1,3 (sehr gut)
- Platform: Linux, Programming: C
- Created a CLI “tsnConf” and a library “libnetconf” using libnetconf2 as a lower-level library (backend).
- Fetching TSN(Time Sensitive Networking) Parameters from a Software Server and a TSN-Switch (IEEE 802.1).
- [GitHub](#)

01/2019 – 06/2019

Reliability evaluation of distributed power systems using object oriented programming

- Did this project using C#, OleDb, and MS Access.
- In this project, I found Reliability Indices like SAIFI, SAIDI, MAIFI, CAIDI, etc. in existing power systems.

06/2018 – 08/2018

SPI and UART Interfacing in microprocessors

- Worked on the Interfacing, Communication, and Programming in SPI und UART.

06/2018 – 08/2018

Real time temperature monitoring system

- Completed this project using an AVR ATmega128 Microcontroller

08/2017 – 02/2018

Knock detecting lock

- Completed this using an AVR-Microcontroller (Arduino) and a Piezo Sensor.

SKILLS

Technical Skills

- **Programming:** Python, Core Java, C#, Bash, Assembly Language
- **Network:** Internet of Things (IoT), TSN, Supervisory Control and Data Acquisition (SCADA)
- **Machine Learning:** SciKit-Learn, TensorFlow, K-means clustering, XGBoost, Data Modelling, Predictive Modelling
- **Cloud:** Google Cloud Platform (GCP), BigQuery
- **Database:** MySQL, MSSQL, Postgres, Oracle, InfluxDB, MS Access, MongoDB, Firebase
- **Communication Protocols:** MQTT, AMQP, HTTP
- **Others:** Github, Docker, Node-RED, JIRA, UML, Bitbucket, RabbitMQ(Broker), Mosquitto(Broker)

Voluntary Work

- **Team Leader**, TEDx: *Manipal University Jaipur (2018-2019)*
- **Vice-President**, The Music Club: *Manipal University Jaipur (2017 – 2018)*
- **Executive Committee Member**: *ONEIROS '17 (Cultural Festival, Major Events), Manipal University Jaipur (2017-2018)*

Languages

- **Hindi** - Mother Tongue
- **English** - C1
- **German** - A2

Hobbies and Interests

- **Guitar:** Trinity College London (Grade-7)
- **Music Production**
- **Graphic Design**