

Work Experience

07/2024 – present	Intern		
	SURAGUS GmbH Dresden, Germany		
	 Eddy current testing technology 		
	 Measurement system development and analysis 		
	- Development & evaluation and testing of algorithms to improve accuracy		
07/2023 – 03/2024	Wissenschaftliche Hilfskraft		
	Professorship of Automatic Control and System Dynamics		
	Chemnitz University of Technology		
	 Hardware Testing of Growth box (sensor module) 		
	- Circuit design and development of PCB to interface multiple sensors for		
	monitoring and detecting abnormalities in the growth box		
	Data logging from Things board server (IOT, Mqtt)		
03/2022 – 09/2022	Intern Trainee		
	Cognizant Bangalore, India		
	- Software Testing		
08/2021 - 10/2021	Research intern		
	CIIRC Bangalore, India		
	- Development of piezoresistive sensors on a paper-substrate using silver		
	ink		
	- Testing of pressure sensors for sensitivity		
	 Developed system design for applications like nano weigh scales applied in nano-sciences field 		
Academic Career			
10/2022 – Present	Degree: Master of Science in Embedded Systems		
	Faculty of Electrical Engineering and Information Technology		
	Chemnitz University of Technology Germany		
	Focus:		
	- Smart Sensor Systems		
	 Design and Verification of Digital System, Test of Digital and Mixed signal circuits 		
	- Digital Components and Architecture for Data Processing GPA: 3.39		

08/2018 – 08/2022 Degree: Bachelors in Electronics and Communication Engineering Jyothy Institute of Technology | Bangalore, India Focus: - Analog and Digital Electronics - Control systems and Embedded Systems - Digital Signal Processing

- VLSI Design, HDL GPA: 2.02

Technical Skills

Programming and Technology	C Python Assembly Language Embedded C Verilog HDL
Software	Proteus KiCAD Simulink Matlab LTSpice ROS Ansys LabVIEW
Embedded	Arduino Raspberry 8051 Esp PCB-design Analog Circuit Design

Projects

05/2023 – 07/2023	 Resistance Measurement circuit for Temperature Sensor matrix, Project lab embedded systems, TU Chemnitz, Germany. Investigating optimum measurement method Integration of Microcontroller (Arduino Uno) with Sensor matrix SPICE Simulation Software development for microcontroller
02/2022 – 07/2022	 Bachelor Thesis: Industrial Automation using Industry 4.0 Automate a Polymer Industry in Industry 4.0 standards Data collection, monitoring and alert system built. BLYNK platform to display data to tap production of the industry (ESP8266, Arduino, Thermocouple, Proximity sensors) Designed PCB to incorporate all circuitry on a single plate.
Additional Projects	 Development of nano weigh scales using Piezoresistive sensors Intruder Alert System using Raspberry Pi, OpenCV and Image Processing to track objects in real-time Multipurpose Smart mirror using Raspberry Pi Data logging, visualisation using MATLAB for number plate recognition Cattle Monitoring system – Machine Learning Model that monitors health and activity of cattle using KNN Algorithm and Logistic Regression.

Publications

"Data Acquisition and Alert System Using BLYNK Platform," International Research Journal of Engineering and Technology (IRJET), Vol. 9, Issue 6, June 2022

Languages

English	C1
German	B1

Engagement and membership

01/2020 - 1/2021

IEEE Chairperson, Student Branch

- Hosted various technical activities, events, and competitions
- Participated in E-yantra, IITB Robotics challenge



10.09.2024, Chemnitz