ANJAN CHATTERJEE

M.Sc. Student

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PROFESSIONAL SUMMARY

- Technology enthusiast skilled with Python, C, SQL, Git, Docker, Machine Learning and Linux systems. Experienced in IoT development, including embedded systems and cloud based microservices.
- Adaptive in an international team with an independent and structured way of working, having good communication, problem solving and quick learning ability with careful attention to detail.
- Currently looking for a working student or an internship position in the automotive field.

PROJECTS

Nov 2020 – present

ROBOT CONTROLLER ANALYSIS - OvGU, Magdeburg

- Working on KUKA KR3 industrial robot to validate the accuracy of a generic RCS module on the virtual robot simulation environment, with the actual KRC4 controller. The project includes designing and performing experiments, collecting data of the kinematic parameters, do data analysis, compare and study the changes for both the real and simulation environment.
- **Technical expertise:** MATLAB, Python (NumPy, Pandas, Matplotlib)

April 2021 – July 2021

ANDROID APPLICATION DEVELOPMENT - OvGU, Magdeburg

- Experienced in software engineering principles with agile architecture and collaborative teamwork in developing an Android application that allows user to monitor their income and expenses according to the user's preset budget. Developed new features, maintained the cloud database and managed the team.
- **Technical expertise:** Android Studio, Firebase, Java, Git

April 2020 – July 2020

SIMULATION MODEL DEVELOPMENT - OvGU, Magdeburg

- Excellent teamwork and planning demonstrated by the successful optimization and improving the safety of a busy traffic node in the city of Magdeburg. Tasks included the collection of raw data, data preprocessing, developing the simulation model, validation of the model and data analysis of the output.
- **Technical expertise:** Anylogic, Java, Python (NumPy, Pandas, Matplotlib), Git

Jan 2018 – May 2018

IOT AUTOMATION SYSTEM DEVELOPMENT - MAKAUT, Kolkata

- Demonstrated project management and organizational skill in planning and developing an Internet of Things (IoT) based home automation system with live control and monitoring features using cloud APIs. The project resulted in a research paper that talks about the integration of Artificial Intelligence and Blockchain in the field of IoT and its impact on smart connected lighting.
- **Technical expertise:** NodeMCU, Arduino, C, MQTT, IFTTT

WORK EXPERIENCE

Nov 2018 – May 2019

IOT PROJECT DEVELOPER

TenPi Technologies, Kolkata, India

- Experienced with strong leadership skills in managing a group of 4 interns for the development of a working prototype of an Internet of Things (IoT) dustbin gaining electronics hardware knowledge on cloud-based MQTT server-client environment.
- Successfully performed independent research within a startup environment to deliver the most cost-effective solution.
- Diagnosed and solved problems related to the electronic circuit of the company's product to meet the customer lifetime value and customer retention rate. This included accceptance test on the embedded testing environment.

EDUCATION

Oct 2019 – Present

MASTER OF SCIENCE IN DIGITAL ENGINEERING, COMPUTER SCIENCE

Otto-von-Guericke Universität, Magdeburg, Germany

July 2014 – June 2018

BACHELOR OF TECHNOLOGY IN ELECTRICAL ENGINEERING

Maulana Abul Kalam Azad University of Technology, Kolkata, India

- **Thesis:** Application of IoT automation in different engineering fields.

SKILLS

Languages

English	Fluent, C1 (IELTS: 8 band)
Bengali, Hindi	Native
German	Basic

Technical

MATLAB, Simulink
Python (NumPy, Pandas, Matplotlib, OpenCV)
C
Arduino, NodeMCU
Git
SQL
MS Office
Machine Learning (Tensorflow)
Docker
Windows, Linux

INTERESTS

Public Speaking
Video games
Reading novels
Cooking