Letter of Motivation

My name is **Varun Sebastian** and this Letter of Purpose is written to convey my intention to study **Intelligent Manufacturing at TU Clausthal University.** I have completed my Secondary and Higher Secondary from the Maharashtra state board and received excellent marks, 90.20% and 72.92%, respectively. While studying at the University of Mumbai, I was able to complete my B. tech at FR. Conceicao Rodrigues College of Engineering with good grades in subjects such as Fluid Mechanics, Dynamics of Machinery, Turbo Machinery, Machinery Diagnostics and Operations Planning & Control with a grand CGPA of 9.60.

I have fluency in writing English language as I have done 16 years of education in English medium. Furthermore, I have attained **Goethe Zertifikat A2 for the German Language**. I also scored an overall band of 7.5 (CEFR Level C1) in IELTS.

Workshop Attended and Bachelor's Project: In my undergraduate education, I engaged in activities such as workshops and projects in order to improve my practicality. I joined a workshop on 'Weldments in Solidworks' in July 2021, which helped me expand my knowledge base on industrial designing and fabrication. In addition, I have pursued my Bachelor's project of "Design and Development of Regenerative Damper of Electric Vehicles," where the concept of energy harvesting from the suspension system of the electric vehicle is built, thus proving my creativity and problem-solving skills.

I was actively involved in the "Formula Bharat 2023 - Class II" event, involving myself in group work and project management. Secondly, I have also engaged in volunteerism, in as much as I undertook the volunteer activities for the enhanced opportunity to serve in the community.

Why Intelligent Manufacturing?

The structure of the program offered at TU Clausthal particularly the Master's program in Intelligent Manufacturing addresses my intentions smartly. From a technical point of view, I find it inspiring that the program is aimed at incorporating up-to-date technologies such as Robotics, Artificial Intelligence, as well as Data Analytical tools into the manufacturing pipelines. Knowledge of these state-of-the-art tools will improve my mastery in the management of increased production efficiency, upgraded functionality and improvement of the function of production systems, therefore improving the whole functionality of production systems in the industry. This broad exposure will enhance my experience as well as equip me with the dynamism needed to address various factors in the complex production environment of the contemporary manufacturing industry. In addition, since the program intends to integrate project-based learning and industrial partnerships, it will afford an excellent chance to enhance my relational skills, including teamwork, communication, and leadership abilities that are mandatory for profit-making organizations within the context of the global marketplace.

Why Germany?

This is because Germany has a well-developed system of education, especially in the field of engineering and manufacturing, offering great opportunities for students wishing to get a Master's degree in Intelligent Manufacturing. They are well endowed with an Industrial base and systems for research, this is a well-endowed country dedicated to Academic and professional growth. Besides, most areas in Germany are cosmopolitan and hold an open-door policy to overseas learners, thus furnishing an appropriate environment for correlation between cultural points of view and individual growth. Opportunity Germany's rich background and innovative spirit provide an invaluable chance to get knowledge and expose oneself to Germany's cutting-edge technologies in manufacturing.

Why TU Clausthal?

Among all advanced schools, TU Clausthal University is chosen as the leader in obtaining a Master's degree in the sphere of Intelligent Manufacturing. The university's long-standing tradition in engineering and minerals literacy linked with the opportunities for advanced technical equipment creates the best environment for the investigation of manufacturing technologies. The aspects that particularly appeal to me about TU Clausthal are that the university's academics are organized into interdisciplinary faculties and research centers and there is an emphasis on cooperation and partnerships with industries where students can gain practical experience and learn about real-life issues and problems. Also, as TU Clausthal is focused on multicultural policy, creating a warm environment for the representatives of different cultures, this point is perfect for me as I also aim to protect the main perspectives of my personal and academic development and improve my cultural competence.

Upon the successful completion of my Master's program in Intelligent Manufacturing at TU Clausthal, my ideal/planned employment opportunities and internship positions are with the top tier industries like Siemens, Bosch, Daimler AG and many more where my knowledge and skills in manufacturing technologies and automation will be of great value. I want to aim for titles like Manufacturing Process Engineer and Automation Systems Specialist, applying the expertise to promote change and improve production lines to minimize wastage and reduce costs for the benefit of the company.

I believe that the Master's program in Intelligent Manufacturing at TU Clausthal is the next logical step towards achieving my dream; undergraduate education equipped me academically, professional experience fine-tuned me, and I am passionate about engineering and innovation. It will not only provide me with the technical knowledge needed when joining a manufacturing-oriented company in the modern world but also enable me to develop as an individual as well as learn inter-culturally.

Therefore, I am very much willing to bring in my skills and passion for the ingress into TU Clausthal and look forward for this exciting experience of building a bright future in the area of IMS.

Thank you for considering my application.