Motivation Letter

I go by **Abhay Ishwar Gouda, Patil. Embedded Systems Engineering** is a field that really excites me. I have always been enthralled with the complex worlds of electronics and communication, and I discovered that following this degree at the **University of Freiburg** exactly fits my background and future professional goals.

My path started when I scored **73.2% (German Grade 2.20)** in the All India Secondary School Exam in March 2018. During my **Diploma in Electronics & Tele-Communication Engineering**, which I finished in August 2021 with an **87.47% (German Grade 1.63),** this basis in science and mathematics grew even more developed. Completed my **Bachelor of Technology in Electronics and Communication Engineering** at MIT World Peace University in Pune with **8.20 CGPA (German Grade 1.92)** is My course of study spans probability and statistics, power devices and machines, computer networks, robotics and automation, data science, automotive electronics, and electromagnetics. My general **IELTS exam result of 7.0 bands** shows that I am rather proficient in English, which will help me to communicate in a varied academic setting.

Over my scholastic path, I have participated in a variety of events that have developed my critical thinking, cooperation, and inventiveness. Furthermore demonstrating my dedication to broadening my knowledge is my successful completion of online courses in fields including cloud computing and computer languages. Along with **Hack MIT-WPU 2023** and the **EduYouth Meet** with Gurudev Sri Sri Ravi Shankar, which gave me insightful knowledge and skills, I also gained. Published in the International Journal of Scientific Research in Engineering and Management, my paper on **"A small approach for Controlling Street Lights Using IoT,"** is one noteworthy effort.

Internships with Microverse Automation Pvt. Ltd., **Logicare Systems Pvt. LTD.,** and **Transcend Teknologies** have given me real-world knowledge. These positions—which have given me a strong basis in embedded systems—involved circuit design, firmware development, PLC programming, and control panel design. My technical certifications, like **C Programming for Beginners and AWS Academy Introduction to Cloud**, show even more of my commitment to picking and using fresh technology. Furthermore, my work on IoT-powered street light control for the International Journal of Scientific Research in Engineering and Management highlights my field-of-expertise.

A personal encounter that sparked my enthusiasm for Embedded Systems Engineering will help me to study this discipline. Working on a project developing firmware for ESP32 microcontrollers, I interned at Logicare Systems. This encounter helped me to see how well embedded systems might address practical challenges. Courses like "Advanced Embedded Systems" and "Real-Time Systems" available at the University of Freiburg fit my interests and will enable me to acquire more thorough knowledge and abilities. Learning how to apply the newest technology in embedded systems will equip me for a prosperous future.

The University of Freiburg's exceptional standing and ranking appeal to me so I would wish to apply. The University of Freiburg ranks as among the top 200 universities in the world based on the QS World University Rankings. Comprising more than 24,000 students and modern facilities, the institution offers a first-rate study environment. The university's attractiveness partly comes from its position in Freiburg, an energetic city with a rich cultural legacy. Studying in such a vibrant surroundings would improve not only my academic experience but also give chances for personal development. Strong ties the university has to industry and research centers will also help me grow professionally.

Germany's advanced technology and first-rate educational system appeal to me as places for study. Since the education in my sector is far better than in other countries, I plan to remain in Germany. I wish to be among the rich German culture, diversity, and good exposure. German universities' practical approach and close industry contacts make them perfect location for my Master's study. Studying in Germany helps me to develop personally as well as professionally. The nation's emphasis on research and invention will equip me with the tools required for professional success.

After finishing the Master's degree, I hope to get employed in top firms like **Bosch, Siemens, or Infineon Technologies** as an **embedded systems engineer or firmware developer.** These organizations are well-known for their creative work in electronics and embedded systems, so I think they will create the ideal setting to use my knowledge and abilities. Furthermore, I hope to help create fresh technologies capable of solving practical problems. Working will allow me to participate in a vibrant sector and help to drive developments in embedded systems.

Having closely examined the University of Freiburg's Embedded Systems Engineering Master's degree, I am sure it is the perfect fit for me. The program's emphasis on both theoretical and pragmatic features of embedded systems will help me to acquire the required knowledge and abilities. Embedded systems excite me, hence I think this curriculum will enable me to reach my professional objectives. Contributing to the field and having a significant influence with my work excites me.

I value your giving my application some thought. The chance to study at the University of Freiburg and help to advance the discipline of embedded systems engineering excites me.

Regarding,
Abhay Ishwar Gouda, Patil.