**Statement of Intent**

I am **Mitali Das**, and I am writing to say how incredibly eager I am to graduate from **KIT with a Master of degree in Electrical Engineering and Information Technology.** This letter aims to underline my academic background, professional experience, and the reasons for my wish to keep on studying in this field at your esteemed university.

Having completed my **Bachelor of Technology in Electronics and Communication Engineering** at Tezpur University in Assam, India, I graduated with a **CGPA of 7.68.** My higher secondary education was completed with a score of **92.17% (German Grade: 1.35)** in the 12th grade in 2017; in my 10th grade tests I achieved **10.0 CGPA (German Grade: 1.00).** My **IELTS result of 7.5** shows that I am also very competent in English, with individual scores of 8.5 in Listening, 7.0 in Reading, 7.0 in Speaking, and 6.5 in Writing. My technological background covers Python, C++, C, MATLAB, hands-on knowledge of Linux-based OS, Oracle Cloud Infrastructure, and Oracle Datacle.

My academic road has been marked by a dedication to both practical applications and theoretical knowledge. Projects completed satisfactorily include **password protected door lock systems and home automation.** The Home Automation project created an integrated system allowing remote control and monitoring of domestic appliances, therefore considerably improving user convenience and energy efficiency. Aiming at enhancing home security with microcontroller technology, the Password Protected Door Lock project These initiatives enabled me realize their real impact and confirmed my love in embedded systems.

**Deloitte Consulting India Private Limited** has had me as an **analyst** since March 2022. Over this time, I have maximized searches for economy, set and maintained Oracle database management systems, and performed health checks. Apart from supporting data integrity by means of backup and restoration of databases, my duties have included maintenance tasks involving deployments and upgrades as well as debugging and fixing of database-related issues. As a **Graduate Trainee at BIAS InfoTech Private Limited**, I tracked database performance, assisted with routine database maintenance tasks, and generated reports on database security and performance for assessments. These interactions have deepened my passion of electrical engineering and information technology. Beyond academics, I have actively pursued real-world experience via training and employment. Under the Ministry of MSME, I underwent a course in **"Embedded Systems"** provided by the Central Tool Room & Training Centre.

**I am driven to participate in this course since I want to understand the basic rules regulating the universe in terms of technology and engineering**. My bachelor's degree provides a strong foundation in subjects including Basic Electronics, Analog Electronic Devices and Circuit, Instrumentation, and VLSI Design. Exactly what I am looking for the master's degree at KIT lets me specialize even more and build on this knowledge. Curriculum of KIT covers subjects essential for the needs of the twenty-first century, including renewable energies, electromobility, and information and communication technology. These are the areas where I am quite personally interested as well as where I have lots of space for growth and contribution.

**Germany is well-known for its great emphasis on modern technology, which provides ideal conditions for research and engineering.** I want to study in Germany since the cost and quality of the educational system there are much valued. The opportunity to come across German variety and culture excites me. Surrounded with a broad and multicultural environment will help me grow both personally and professionally. Studying in Germany will, in my view, produce many employment opportunities not only in Germany but also elsewhere and provide a top-notch education acceptable everywhere.

**KIT stands out for both rank and exceptional performance in information technology and electrical engineering.** In the QS World University Rankings 2024 it came sixth nationally and 124th globally. The university's focus on modern disciplines such photonics, quantum technologies, micro- and nanoelectronics, and photonics speaks to my interests and ambitions. Courses covering Advanced Modelling and Simulation, Contactless Sensor Technology, and Automation all of which provide a thorough and comprehensive education—also find place in the syllabus. The capabilities of KIT which comprise tech campuses, more than twenty in-house labs, and private business alliances will help me to get real-world project practical experience.

**Long term professionally,** I want either a research scientist, electrical engineer, or information technology specialist. The KIT master's program will give me the opportunity to grow in advanced theoretical knowledge and application-oriented training, therefore arming me for these roles. Having obtained my master's degree, I wish to start my work in Germany since the country offers excellent post-graduation opportunities including visa extensions and a strong employment market for engineers.

**At last,** I am confident that the Master of Electrical Engineering and Information Technology degree from KIT would provide me with the advanced knowledge and skills required to achieve my career goals. The lively academic community at the university stimulates me both to offer to and gain from. I appreciate your allowing my application some thought.

**Regards,**

**Mitali Das**