

STATEMENT OF PURPOSE

My name is **Raeid Basit Mukadam** and I am putting down my statement of purpose to vividly explain why I am highly interested in pursuing a **Master's degree in Mechanical Engineering at KIT**. Having completed a sound engineering course and having a strong inherent passion for innovation and creativity, I am interested in continuing my education at an institute that will help me develop the best of both worlds – creativity and innovation along with sound education.

EDUCATIONAL BACKGROUND: I passed second class 10th and 12th in this year 2018 and 2020 from the Central Board of Secondary Education in New Delhi India and my total percentage of marks was 90.8% and 96.16%. I am a student studying in the **Manipal Institute of Technology, Manipal, Karnataka** and I am pursuing a **BTech in Mechanical Engineering** at the moment. In the entire period of study at this university, I have learned a paradigm shift in my area of core competency and that is Mechanical Engineering majoring in courses such as Mechanics of Solid, Fluid Mechanics, Heat Transfer, Finite Element Methods, CAD-CAM. I am skilled in the English language as I have spent 16 years studying in various schools wherein I got used to the English medium; I in IELTS, I got an average band of 8.

INTERNSHIP EXPERIENCE: During my internship in the Council of Scientific & Industrial Research, National Aerospace Laboratories at Bengaluru, INDIA between 12/12/2022 to 20-01-2023, I was privileged to perform the mode I fracture toughness of unidirectional carbon fiber composite. The successful set of valuable skills could be not only developed for the engineer profession; the interest in studying new innovative materials and their use in different fields of engineering is increasing.

EXTRA-CURRICULAR ACTIVITIES: I had the privilege to contribute to the successive success of MIT, an initiative by Manipal Institute of Technology, in the years 2022 and 2023, in addition to the academic year 2022-2023 I have also earned the Diamond Jubilee Award for having achieved excellent performance on my second year with the recognition of 'Second year topper,' for which I was presented a certificate of membership in the Advisory Board of Photography

TECHNICAL SKILLS: In addition, as part of the coursework, I have acquired improved efficiencies with related software codes and softwares such as Python, SolidWorks, Fusion 360, ANSYS, CATIA, MATLAB, and CFD.

WHY GERMANY?

Currently, Germany is said to have established itself in the provision of quality education especially for engineering and engineering management as well as efforts to foster innovations and technologies. The existing comprehensive research facilities in the country and the most advanced technologies that are on the horizon of the engineering field in numerous branches are the environments that fulfill my academic and professional goals.

WHY KARLSRUHE INSTITUTE OF TECHNOLOGY?

Selecting a university is one of the most difficult choices for obtaining a Master's degree in Mechanical Engineering, and after all the research I consider Karlsruhe Institute of Technology (KIT) among many universities in Germany. By having these achievements such as world-class research facilities, a quality academic reputation, and a focus on cross-disciplinary studies, KIT can be characterized as an ideal academic environment for personal and intellectual development.

WHY THIS PROGRAM?

Master's program in Mechanical Engineering at the KIT is a perfect match for my enthusiasm in innovations as well as in my willingness to contribute to the advancement of modern technologies. Its broad course offering, which includes complex areas of study like energy systems, production technology, and computational mechanics, aligns with my academic and professional goals.

In my previous studies in mechanical engineering, I was introduced to several aspects of the core aspects of engineering that will undoubtedly assist me in the transition to the specialized courses that are offered in the Master's program at KIT. Thus, working with leading researchers and specialists, as well as the availability of modern resources, will allow me to develop myself and make a significant contribution to the development of knowledge in this area.

FUTURE GOALS AND CONCLUSION: My goal upon finishing the Master's program in Mechanical Engineering from Karlsruhe Institute of Technology (KIT) is to obtain a job as a Research Engineer or Product Development Engineer in reputable organizations including Bosch, Siemens and Daimler AG among others. As such, in all these positions, I seek to exercise my knowledge and skills in current technologies, computational mechanics and other superior manufacturing procedures in the creation of new products, the enhancement of new product designs within the mechanical engineering field and the improvement of mechanical engineering in general on the international platform.

In conclusion, I have pinpointed several strengths that highlight my suitability for a Master's degree program in Mechanical Engineering at the Karlsruhe Institute of Technology: academic background, technical skills, practical experience, and commitment to innovation. I am ready for such a change and would like to contribute to the development of knowledge and technologies with enthusiastic work and an inquisitive mind.

Thank you for considering my application.