**STATEMENT OF PURPOSE**

I, **Chetan Tanaji Thombare**, am herewith submitting the statement of intent for my sincere desire to seek the **Master of Science in Mechanical Engineering at Karlsruhe Institute of Technology (KIT)**. Education and professional practice have nurtured me to develop a strong interest in the advancement of **Mechanical Engineering** and this program presents an opportunity to further my career.

I started my academic journey at Maharashtra State Board of Secondary Education in Pune where I completed my Secondary School Certificate Examination in the year 2016. Based on this foundational study, I proceeded to the Maharashtra State Board of Technical Education to do a **Diploma in Mechanical Engineering in Mumbai** receiving a grade of 79.64% in the year 2020. This program made me familiar with important subjects such as Engineering Graphics, Fluid Mechanics & Power Plant Engineering which developed my interest in the mechanical part of the vehicles.

The foundation of my technical education is **my Bachelor of Engineering in Mechanical Engineering from the Savitribai Phule** Pune University which I am currently pursuing and expected to finish by November 2024, This offered me a clear insight into Engineering Thermodynamics, Mechatronics, as well as Dynamics of Machinery. These subjects formed a basis for the development of my interest in technologies pertaining to autonomous driving. One of the most significant experiences in academic learning was the execution of the bachelor’s project at Dr. D. Y. Patil School of Engineering, Pune,“**Printed Circuit Board Quality Inspection by Image Scanner**”. This project was about image processing and automated inspection systems that are helpful when building autonomous vehicles. I understand the need for precision and reliability in engineering from the work done in using superior algorithms to screen and categorize the defects in PCBs.

**Work Experience**: I had the experience of being a **Samsung Experience Consultant at Quess Corp Limited Bangalore from December 2023 to May 2024.** This role offered me an opportunity to learn and practice customer relations, working under pressure, as well as in communication and technical assistance. The skills I developed include gaining an understanding of industrial practices, communication, and time management skills. I have gained very good experience from this course that will enable me to tackle the challenges of advanced studies and a mechanical engineering career.

**Language Skills and Technical Proficiency**: I have passed 16 years of my schooling in English medium, which qualifies me to have a better command of the English language. Also, I hold an A1 Level German Language Certificate from Yes School of Language certified in October 2022. My technical strengths are in Python, Django, BootStrap, Communication, Time Management, Smart Working, Production, and quick learning.

**Why Master of Science in Mechanical Engineering**: This choice of studying towards a Master of Science in Mechanical Engineering is a logical progression from my past education and experience. In my Bachelor’s degree in Mechanical Engineering, the course taught me crucial concepts related to dynamics and controls, mechatronics, and design of machine elements which are useful in the advanced knowledge in this master’s program. This course will be of immense value addition to my profile given the opportunity to enhance my knowledge and skills, especially in modern technologies and research approaches. I am more encouraged by this course because it covers various units that I feel will be relevant seeing that I want to build my career in the automation, robotics, and sustainable energy solutions industries. The global openings are available for mechanical engineering. This advanced knowledge and international exposure shall assist me in making a positive impact in the engineering streams as well as the engineering industry by solving intricate engineering problems aspired to.

**Why Germany:** Germany is also a well-known producer of engineering and technological products and has some of the premier technological development and research centers. The priority of the country for practical educational experience and focus on research enables students to get real experience and new knowledge. The learners get to be exposed to multiculturalism hence improving on their internationalism and connections. Also, the internship provisions in companies and the robust German economic sector and industry contacts make Germany a perfect destination for many opportunities. Germany offers a high-quality education system, and studying with professional tutors in the engineering discipline will help me improve my career growth in the future.

**Why Karlsruhe Institute of Technology (KIT):** The Karlsruhe Institute of Technology (KIT) is exceptionally equipped with modern research infrastructures, a wide range of disciplines, and partnerships with the business world. The emphasis on both practical and research education is also a direction that aligns with my academic and professional goals. The concept of having to learn from several fields and the fact that KIT is believed to have a culture of enabling innovation will enable me to acquire all the knowledge and skills that I need concerning mechanical engineering. Moreover, by studying in Germany I will also get to interact and mix with students from all over the world and build my inter-personal network.

**Future Goals:** After the successful completion of my master’s degree, I am particularly interested in working within the specialization of Mechanical Engineering Research and Development. Specifically, the topics in the areas of automation, robotics, and sustainability such as sustainable energy solutions are my most concern. Of course, a long-term goal will be to help create new engineering solutions for dealing with global problems.

Therefore, I have no doubt that the skills and exposure procured in this program will help me attain my professional objectives as well as contribute positively to the faculty of mechanical engineering. It will be my privilege to be joining the active academic society of the Karlsruhe Institute of Technology. Thank you for considering my application.

Sincerely,  
**Chetan Tanaji Thombare**