**STATEMENT OF PURPOSE**

I am **Chetan Tanaji Thombare** and it is my pleasure to apply for a **Master's in Autonomy Technologies in FAU Erlangen.** With this statement, I would like to share with you my education background and qualifications, and my interest in this program.

I completed my education in Pune, India where I was enrolled in 10th Standard with **Maharashtra State Board of Secondary Education** and I passed in the year 2016. I took courses such as Mathematics, Science, and English among other courses. This early education made me develop curiosity on how things operate to the point of getting solved by using technology. Then, I pursued a Diploma **in Mechanical Engineering in Mumba**i affiliated to Maharashtra State Board of Technical Education, Mumbai from 2017 to 2020. I acquired knowledge on vital areas such as Engineering Graphics and Fluid Mechanics. This made me realize the assurance I had when I wanted to be an engineer.

I am pursuing my **Bachelor’s degree in Mechanical Engineering** at the **Savitribai Phule Pune University from the year 2020 expected to finish in November 2024.** Subjects offered in this course are Thermodynamics, Mechatronics, and Machine Design. These courses made me understand how machines and systems worked. The most exciting part of my Bachelor’s was my Bachelor’s project, that was, “**Printed Circuit Board Quality Inspection by Image Scanner**” done at Dr. D. Y. Patil School of Engineering, Pune. This project provided me with an opportunity to work on the integration of knowledge from mechanical engineering and computer vision domains to design an automated PCB quality scanning system. This experience also realized my passion for driving autonomous systems in manufacturing and quality assurance.

In addition to computer skills and math knowledge, I have also worked on improving my language proficiencies. I have been studying in an English medium school for 16 years. Also, I have received an **A1 Level German Language Certificate from Yes School of Language** to show my intention to enrich myself in the German cultural and academic system.

While studying in college, from December 2023 to May 2024, I was offered an opportunity to work as a **Samsung Experience Consultant at Quess Corp Limited in Bangalore**. In this job, I assisted clients to learn about Samsung’s products, which included mobile and tablet devices. I was taught how to express the ideas of technology in easy language. From this experience I learnt a lot of lessons especially from customers about handling people especially in relation to technology. This job motivated me to study higher education to do better in my career and learn in depth about this course.

**Why this course**: I decided to take the MSc Autonomy Technologies course as it fits wonderfully to my prior mechanical engineering degree but at the same time proposes a world of new opportunities. The sharp focus on current technological subjects was also in evidence during my Bachelor’s degree, wherein I covered subjects such as Mechatronics and worked on a self-developed project – an automated image scanner for the inspection of PCBs. This led to my interest in intelligent systems that can work independently on their own. The Autonomy Technologies program will improve my understanding in areas such as robotics, artificial intelligence, and autonomous systems all of which are increasingly impacting many industries. This course will help me enhance my profile in a big way because the competencies that will be imparted to me are modern day requirements across the world. One of the topics that interest me most is learning how to design and develop a completely autonomous system that could be incorporated in manufacturing, transportation, and even healthcare departments. From this course, I shall be able to place myself in a better position to contribute towards growth in technological advancement and possibly spearhead special interest areas such as autonomous systems.

**Why FAU Erlangen?** For the Master’s degree in Autonomy Technologies, I decided in favor of the FAU Erlangen. I came across the various programs offered in this university when I was researching the best engineering institutions in Germany. This I found inspiring and what really got my senses was that FAU Erlangen has a very good reputation in the technological and engineering fields. The professors are very experienced and are working on exciting topics in autonomous systems. But what caught my attention was the curriculum of the course. It corresponds to the lists of what I would like to learn – robots, artificial intelligence, how to make the machines function independently. Organization of the program is a combination of theoretical input and practical assignments I believe in. All these made me convinced that FAU Erlangen is a right place for me to enhance my knowledge and experience in the field of Autonomy Technologies.

**Why Germany**? There are several reasons why I have chosen to do a Master's degree in Germany. First, as we all know Germany is well known to be the best country in engineering and technology and since my course of study is in this area that makes Germany to be the best country for me to study. Another factor is that the German industry has a very advanced focus on research, including such fields as automatic systems and robotics, all of which I’m very passionate about. The educational system of German universities is famous for its high quality and practical orientation, which will be very useful to me. Furthermore, German economy has shown stability and the industry-university relation in Germany provides good prospects for internships as well as employment in future. Adding all these indicators together make Germany the most appropriate country for me to undertake my higher education and personal development.

**Future goals:** Upon the successful completion of the MSc in Autonomy Technologies from the FAU Erlangen, my ideal career prospect would be to work as a Robotics Engineer or Autonomous System Developer with one of the renowned organizations such as **Siemens, BMW, Bosch etc**. Ideally, I would like to be working on innovative self-driving car technologies or industrial robotics related applications., It is my dream to hold a higher position, like **Lead Autonomy Researcher or AI Systems Architect**.

Thank you for considering my application.

**Chetan Tanaji Thombare**