Statement of Purpose

I had read somewhere that if you want to learn something significant about machinery; learn when it is coming apart and not while it gets built up. I have always remained curious when I used to visit any garages or machine repair shops. I used to observe the person analyzing, inspecting, and making notes of what is wrong with the vehicle. This used to get me so curious like how he could pass a judgment and what different set of skills that person was having that would lead him to form such conclusions. Such were used to be my questions while I was still a kid, and as I grew up such questions turned my curiosity to another level wherein, I found my passion to foray into the field of engineering and technology. This is how I pursued my college studies in the field of Mechanical Engineering. I got to learn a lot about what goes into building machines, working in an industry, and how any problem statement is resolved. But the curiosity to question every new thing and try to master the art has not been satiated at this juncture. This has led me to take a very important step in my life to go for a Master's degree course in Automotive Production Engineering at Technische Hochschule Ingolstadt University/

Being always enthusiastic to learn and develop my knowledge through observation of surroundings and trying to gather more information through research through several books and websites, it was always clear to me that I will be furthering my career in the field of Science and Technology. After completing my Grade 10 studies, I went on to opt for a Diploma in Mechanical Engineering where I was introduced to a plethora of courses that involved Basic Engineering Drawing, Material Science, Mechanical Drafting, Human Resource Management, Computer Aided Machine Drawing, Plant Maintenance and Safety, Theory of Machines and many more. Upon successful completion of my Diploma studies, I got the opportunity to receive admission to study Bachelor of Technology in Mechanical Engineering from one of the premier universities located in the western part of India. During the course of my studies, I got to study a variegated structure of courses that involved Advanced Engineering Mathematics, Thermodynamics, Manufacturing Processes, Kinematics of Machinery, Fluid Mechanics, Engineering Design, Operations Research, Materials Sciences, Computer Aided Machinery, and Drawing. All these subjects not only helped me to complete my sphere of understanding of various engineering concepts and theories but also enabled me to dig deeper into the concepts by undertaking several engineering problems and building efficient solutions. I also got to spend time with my professors and laboratory assistants discussing with them for hours the advancements in technology and the research work going on during the time. I also got the chance to help my peers and seniors by assisting them during their project work and also got to learn a lot about the problem statements they were trying to solve by trying to understand the efficient solutions

provided by them. Moreover, my academic and professional preferences have been determined by the opportunities they propose for the potential acceleration of my interests and the proliferation of corresponding knowledge and problem-solving skills.

Being always an enthusiast in carrying out projects during my course of bachelor studies, I went on to undertake a problem statement involving ‘Working Model of Electric Car’ during my Diploma studies. The project aimed to reduce the wastage of crude oil in the transportation sector and also to reduce the dependence on the generation of electricity through power plants working on limited energy resources like coal, and nuclear power. Another project I did was Improvising Plant And Processes in Sand Casting Using Different Techniques whose main aim was to improve the techniques and efficiency of plants. I also went on to undertake 3 internships during my tenure in engineering. One of the internships was at a Casting factory as a Project Intern where I was responsible for improvising plant manufacturing processes and systems. Another internship was at a Solar company as a Project Intern where I handled defects in the assembly line planned and carried out process experiments, collected and analyzed data, and reported on results. I even worked as a job intern at Dhoraji Foundry Works where I was responsible for resolving day-to-day production, equipment, and process issues and managing casting production, heat treatment, production planning, inventory management, and manpower. After completing these internships, I had an epiphany that I would like to further my career in the field of research and development.

Technische Hochschule Ingolstadt University has an established legacy of leading students to a likely direction of excellence. The research in numerous domains at this university has been recognized as “world-leading” and it is ranked among the top research colleges in Germany. The higher and positive ratings are proof of the outstanding teaching approaches adopted by the faculty of this university. Their experienced instructors are a plus point for ideal guidance and support. I opted for this university because it has vast modern facilities like an advanced classroom and well-experienced teachers from all over the globe, where I can learn diverse things from expert tutors as compared to Indian universities.

I have always remained an active participant when it came to involvement in extra and co-curricular activities. I happened to attend various workshops, seminars, and conferences during my time in college. I have also established skills in software like SolidWorks, PT Creo, AutoCAD, MATLAB, ANSYS design modeler, and many more. I have also volunteered for several technical festivals and Blood Donation Camp that happened in our locality, went through several homes and explaining people the importance of blood donation, and tried to make people aware of the necessity of blood

in the hospitals and how it can be a boon to somebody's life. Also, this quality to always improvise upon the lives of the lesser beings showed in my working interest during my studies.

In my opinion, Technische Hochschule Ingolstadt University would help me bridge the crucial gap between my academic endeavors and my professional pursuits. The award-winning university's commitment to providing a stimulating and vast experience for its aspirants is evident in the course structure designed to equip students with the knowledge, skills, and expertise needed to research, create, and work with the best minds in the field. Its student services team has veteran International Student Support advisers who are on-site to help international students with banking, language support, and visas and hold social events and orientations. This university alumnus connects to a powerful global network of engineering opportunities. Thus, one can have access to all the resources for stepping into the professional world of automotive engineering. The laboratory facilities offered at the university will help me complete my sphere of understanding of the subject by collaborating the Research and Development work along with peer researchers and professors.

Thus, being highly motivated and proactive at learning new skills and experiencing new things, I will be really grateful to you to provide me with such an opportunity to study Master's in Automotive Product Engineering at Technische Hochschule Ingolstadt University and help me excel in my future endeavors.

Yours Sincerely,
Pavitra Parsana.