**Statement of Purpose**

I, **Ketan Subhash Patel**, am writing the application for the **Master of Science in Electromobility Program at the Friedrich-Alexander-Universität Erlangen-Nürnberg.** I completed my 10th standard from Maharashtra State Board of Secondary and Higher Secondary Education Pune, India with 75.86% marks. Then, I completed 12th standard in the year 2008 obtaining a total mark of 76.20% from the Maharashtra State Board of Secondary and Higher Secondary Education, Pune. From the academic year of 2008 to 2012, I completed a **Bachelor’s in** **Mechanical Engineering at the University of Mumbai.**

**Bachelor Project:** I had the task of retrofitting the gland packing of a bitumen pump to a mechanical seal at BPCL- Kochi Refinery. It was in this project that I was able to learn and solve real-life engineering problems.

**Work Experience:** I started my career as Assistant Professor at Lokmanya Tilak College of Engineering and here I created timetables for Mechanical Engineering students. I then moved to Fouress Engineering India as a Trainee Engineer, designing various types of valves. At CADTech Engineering Solution, I worked as a CAD Engineer, focusing on sun visor design for vehicles. My role as a Passive Safety Coordinator at Grupo Antolin India involved reviewing test reports for global regulations. At Xitadel CAE Technologies, I was a Lead Engineer working on vision device installation and collaborating with design and homologation teams. Most recently, at Skoda Auto Volkswagen India, I served as Deputy Manager in Exterior & Interior, designing and developing greenhouse projects and supporting production teams.

**Technical Skills and Certificates:** I've actively pursued various training opportunities and workshops to enhance my skills and knowledge. I completed a short-term course in Unigraphics CAD at Indo German Tool Room and earned a diploma in Product Design & Analysis from CAAD Center Training Services. I also finished the CCCP course at EDS Technology and attended workshops on topics such as novel trends for engineering graduates and head impact on vehicle interiors. My participation in technical events includes Refrotech 2011 and CAD Tech-2010, an intercollegiate 3D modeling competition. I've received recognition for my work, including an appreciation for defining JP Homologation Study and Methodology, and a certificate for creating a graphical logo at Skoda Auto Volkswagen India.

Additionally, I completed a four-day Global Online Proficiency Improvement Programme on Automotive Testing and Certification organized by The Automotive Research Association of India. My technical skills include proficiency in CATIA, RAMSIS, CAVA, and ECE.

**Extra-Curricular Activities:** I've also participated in blood donation drives. I have received a certificate from Skoda Auto Volkswagen India Pvt Ltd, for the Graphical Logo. I have received a Certificate for participating in Refotech 2011 organized by ISHRAE. I participated in CAD Tech - 2010' and the Intercollegiate 3D Modeling CAD Competition by the Department of Mechanical Engineering.

**Why MSc Electromobility?** Employed in the automotive industry for several years I have found that electromobility is revolutionizing at an ever-increasing pace. I want to remain useful, and provide meaningful input into this revolution and want to stay up-to-date and for that, I require specialized knowledge. In essence, for me, this course will create a linkage between what I am currently capable of doing and what the electric vehicle industry is looking for in a candidate.

For that reason, I would like to study Electromobility, because it is the future of the automotive business. Electric cars are being introduced into the market and there is high demand for professionals who are conversant with them. I assessed that this required actual experience while Mechanical Engineering with a focus on automotive design provided the base I required but now I wish to next level up on electric vehicle solutions.

These are things that this course will teach me regarding electric powertrains, battery systems, and charging infrastructure. It will also explain to me how electric cars function in the larger scheme of the environment and their role in lowering emissions. These skills are crucial for my career growth in the evolving automotive sector.

**Why Germany?** Germany is still one of the prime movers of automotive engineering, and it still has a very active position in the development of electric vehicles. Many major car makers in Germany have recently started investing heavily also into electromobility. Some of the particular area of research and technology that I will have a chance to get in touch with while studying in Germany include.

**Why FAU Erlangen?** FAU Erlangen is best known for its engineering programs and the associated research activities. The thematic focus of the university and its cooperation with industry partners are particularly suited for the research of electromobility. Their curriculum includes all the aspects of technology related to electric vehicles which I think perfectly fits into my career plans.

**Future Goals:** Upon the end of this program, I pursue to be employed under a top-of-the-line automotive company as an electromobility specialist. My goal is to help create better, or at least, not worse electric vehicles with a less harmful impact on the environment. I want to lead a team that is involved in the development of new electric vehicles. I would like to work with Tata Motors, Mahindra & Mahindra, Maruti Suzuki India Limited, Hyundai Motor India, Toyota Kirloskar Motor etc.

Studying this course would be the next step in my career education. It will blend my degree in mechanical engineering with specified knowledge in the field of electric vehicles. This is because I am very passionate about the prospect of being tutored by professionals in this line and also getting to be involved in progressive projects. I want this position and I am already excited at the prospect of joining the FAU Erlangen team.

**Thank you for considering my application.**

**Ketan Patil**