

# Motivation Letter

I wish to introduce myself as **Aadhitya Sridhar** from India, a prospective student aspiring to pursue a Master in Medical Engineering – Branches of Study: Medical Robotics from **The Friedrich Alexander Universität Erlangen**.

Being a Biomedical Engineering student, I know the importance of this field which is playing a crucial role in improving the healthcare experience for society. I have also seen the changes that happened due to technological advancement in each sector so now it is my wish to use my knowledge and skills of engineering to create medical robots, which is the need of this modern world. It also helps to provide accurate results with less error, including various benefits in improving quality of life. I decided to pursue a master's in Medical Engineering – Branches of Study: Medical Robotics from Germany so that I can also learn best practices from the country to apply them in my own country.

For my master's studies, my instruction of medium will be English language so to get more proficiency in this language, **I went through the IELTS test, where I scored an overall of 7.5 including Listening: 8.5, Reading: 8.5, Speaking: 6.5, and Writing: 6.5.**

After completing my schooling, **I was admitted to the Sathyabama Institute of Science and Technology for my Bachelor of Technology in Biomedical Engineering, and currently I am pursuing the same. Where my current score is a 9.19 CGPA (German Grade - 1.49).** I received a **technical certificate** for completing Instrumentation - Intro to Biomedical Engineering by Udemy, and also for completing Python Bootcamp from Zero to Hero in Python conducted by Udemy.

To build my knowledge gap, I completed some **internships, and training, and worked for publications** as mentioned below:

- I completed Virtual Internship Training on Industrial Based Embedded Systems with AI & IOT
- I completed a Biotech Summer Internship in Computational Biology
- I completed Online Internship training on Artificial Intelligence
- I participated in the Summer Internship Program on Recent Advances in Biomedical Science (RABS)
- I completed training on 3D Printing @ Marketspace, Programming with C and C++, "Arduino & Arduino IDE Programming", IP Awareness/Training Programs, etc
- I participated in a Workshop on Solar Charger and a Webinar on Journal & Paper Presentation - "Trigger"
- I worked to present a paper with title Presented the Paper Titled – "Detection of Multiple Ocular Diseases using Machine Learning in the 3rd International Conference on Intelligent Vision and Computing (ICIVC 2023)", and "Assistance for Healthcare Professionals Using Hand Gesture Recognition in the IEEE sponsored 3rd International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES 2023)".

Additionally, I believe that extracurricular activities are essential for personal and professional growth so **I participated in various activities** such as I attended a Webinar on Bio-Medical Equipment and Real-Time Patient Monitoring System, a Webinar on Clinical Artificial Intelligence for Biodesign innovation, participated in the Avantika Cultural Olympiad Essay Competition, and many more.

After much discussion with my colleagues, professors, and career specialists, I have come to the conclusion of pursuing higher education in the field of Medical Engineering in **Germany**, as the country hosts some of the best institutions in the world that offer my desired higher education program and student-friendly environments. Germany's top universities are among the most recognized and highest-ranked institutions in the world including the 20 best colleges in Europe. German Universities believe in a practical approach that ensures that students develop hands-on problem-solving skills that set them ahead of others in the industry. Additionally, I will get an opportunity to meet people from diverse cultures and also get an experience for a lifetime.

I have spent day and night in searching for the university that suits me and found The Friedrich Alexander Universität Erlangen, which provides a brilliant learning infrastructure that I can explore further, especially focusing on the technological field. The experience and credibility of the teaching faculty here are immense and an opportunity to work under their mentorship shall expand my worldview and the future of technology. Also, they provide real-world experience through internships or projects that help us be updated with the latest technology in the medical field. This university is situated in Germany's Medical Valley, which is a hub of medical technology, and healthcare innovations, which will be a positive thing for me to learn in this environment.

This master's program will provide deep knowledge in areas like Mathematics and Algorithms, Electrical Engineering, Medical Devices and Equipment, Automation Technology, and Artificial Intelligence. Additionally, I will enhance my soft skills like Adaptability, Ethical Awareness, Teamwork, Problem Solving, etc. These skills will together prepare me for the future world.

Once I have all the above-mentioned knowledge and skills, I wish to start my professional career as a Medical Robotics Researcher or Engineer at any of the Medical Equipment Manufacturers company. Where I can work on developing and improving medical robots used in surgical procedures, diagnostics, and patient care.

I believe that with the guidance of esteemed faculty members of the department and my passion for the subject, I can succeed in the program. I look forward to joining your esteemed university.

**Aadhitya Sridhar, India**

