Motivational letter

As an aspiring electrical engineer with a passion for innovation and a desire to make a positive impact on the world, I am excited to apply for the BSc Electrical Engineering program at your esteemed university. As a final-year high school student, I have always been fascinated by the field of electrical engineering, particularly in the areas of ICT and robotics. My mother, an informatics teacher, introduced me to the world of computers at a young age and I have been interested in the field ever since.

As a child, I loved to take apart various electronic devices and look at their components, trying to understand how they operate. By enrolling in a specialized school located 120 km from my home, I got access to many wonderful opportunities, such as a robotics club. Being interested in programming, I learned to develop apps, games, and websites. Through consistent coding practice, I developed skills in effective debugging, understanding program logic, and problem-solving. Even though I was engaged in various activities, from taekwondo to dombra (national musical instrument), computer science projects gave me particular pleasure, so I realized that my future would be connected with digital technologies.

Thanks to the robotics club in high school I gained basic knowledge and understanding of Lego EV3. My achievements in the robotics club brought me to the World Robot Olympiad (WRO) 2022 Final in Germany, where I applied machine vision with cameras and various sensors to maximize the robot’s accuracy. This international experience allowed me to improve my technical skills and gain a deeper understanding of different cultures, teamwork, and networking. I also gained experience in working with platforms such as Raspberry Pi and Arduino, which further solidified my desire to pursue a career in electrical engineering.

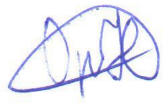
These achievements gave me the incentive to develop further and enhanced my desire to go international. I feel the same aspiration now when I write these lines because I believe that Hungary is the perfect place to immerse myself in the world of modern innovations and to experience its international networking, partially due to the European Engineering Learning Innovation and Science Alliance (EELISA).

Entering Budapest University of Technology and Economics (BME) at the Faculty of Electrical Engineering and Informatics would undoubtedly be an opportunity for me to deepen my knowledge in this area, gain experience and become a highly qualified specialist. I am particularly interested in the Control Engineering subject from the Department of Control Engineering and Information Technology, as I believe it will allow me to further develop my skills in robotics and contribute to the field within the university. Additionally, I believe my skills in IT will be valuable in projects at the “BME Z10” start-up incubator, resulting in more sustainable systems. At the end of my studies, I want to write my thesis about how we can use Reinforcement Learning in the creation of humanoid robots.

After my graduation, I have a strong desire to apply my education to implement the best technology practices in local enterprises. I believe that my technical, communication, and language skills can effectively bridge Kazakhstani companies with Hungary, establishing bilateral international cooperation. Although I wish to accomplish all this, the only thing holding me back is my family's financial situation. With Stipendium Hungaricum scholarship, I know I can put my skills to use at your university and impact the world around me.

Thanks to the international experience I gained in WRO, I am confident that I will be able to adapt to the diverse and multicultural environment of BME. I am excited about the opportunity to study at BME and to gain the knowledge and experience necessary to become a highly qualified specialist in the field of electrical engineering.

I highly appreciate the attention paid to my application.

Sincerely,

Nurmukhamed Orazbek