

I am a PhD student at the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute." Thanks to the DAAD scholarship, I had a unique opportunity to participate in the online mobility program at Leibniz University Hannover.

The scholarship provided me not only with financial support but also with access to new knowledge, professional growth, and scientific development. Thanks to this funding, I was able to focus on my research work without being distracted by the search for other financial resources. Additionally, I gained access to specialized equipment and software necessary for my research in the field of robotics.

Participating in the program allowed me to deepen my understanding of modern process control methods and adaptive trajectory planning for industrial robots. I paid special attention to studying sensors and stabilization systems required for robots operating in complex environments. One of the most important aspects was the study of inertial measurement systems (IMUs) and the analysis of their advantages and disadvantages for specific tasks in additive manufacturing of building structures.

Another significant experience was working with an international research team, exchanging knowledge, and discussing possible solutions to pressing engineering challenges. This allowed me to develop my scientific communication skills, analytical thinking, and practical application of acquired knowledge.

The program not only enabled me to gain new knowledge but also to expand my network of scientific and professional contacts. Attending lectures and practical sessions allowed me to familiarize myself with advanced methodologies in the field of mobile robotics and automatic surface irregularity detection systems for mobile robots.

Moreover, I plan to apply the knowledge gained in my teaching activities, helping to pass on modern scientific achievements to new generations of students in Ukraine.

I am sincerely grateful to DAAD for providing me with the opportunity to participate in this program. It was an invaluable experience that will assist me in my future scientific and professional endeavors.