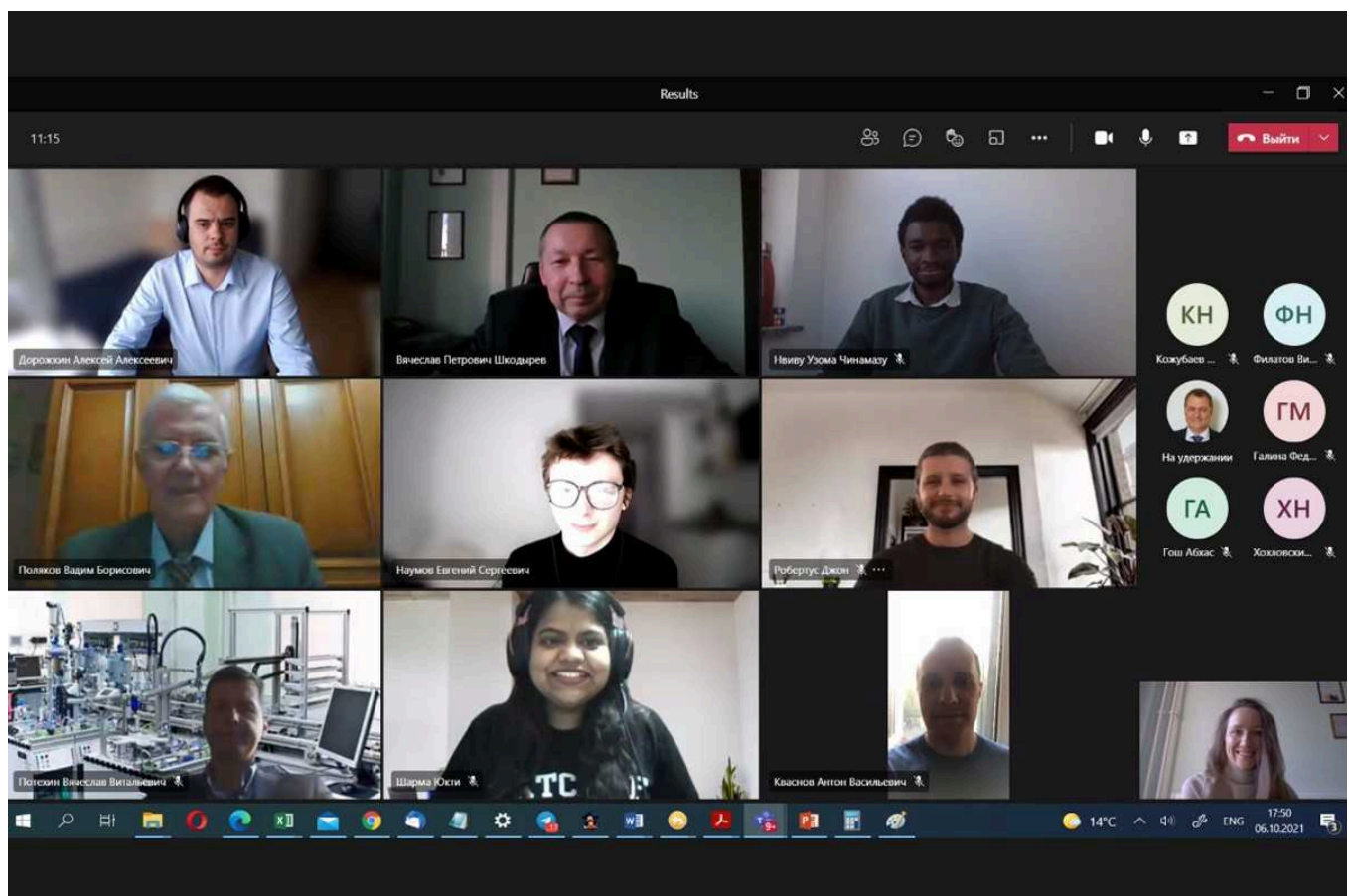


Students in the “Intelligent Systems” international program defended their degrees

The students of the International Master’s degree program [«Intelligent Systems»](#) defended their diplomas. Like last year, the defenses were held online. Six Master’s degree students from Germany, India, Nigeria, and Russia presented their final qualification works to the examination committee. Welcoming the participants, the head of the program, Director of School of Cyber-Physical Systems and Control, Professor Vyacheslav P. SHKODYREV emphasized that the «Intelligent Systems» international program is an example of sustainable development and the result of many years of fruitful cooperation with Leibniz University Hannover (Germany). For eight years the universities have been implementing a unique joint dual degree program. The results of the students’ master’s theses are undoubtedly relevant and promising for further development and implementation in industry, stressed Vyacheslav SHKODYREV.



During the pandemic, both students and teachers have had time to adapt to the online learning format. From the very first days of the transition to virtual mode, the educational process has been implemented at Polytechnic University without any loss of quality. The Master’s degree students of the «Intelligent Systems» program passed the research internship and were constantly in touch with the

professors and supervisors. The students shared their impressions of the two years of the master's program after the defense.

The topic of my graduate work is 'Visual interface for an augmented reality-based control system.' In simple words, it's like a circular vision system in a car, where the incoming image goes directly to the lenses of the augmented reality glasses on top of obstacles that block the view. I tried to make all this applicable to a forklift truck, said Aleksei DOROZHKIN, an SPbPU student from Russia. It is more of an applied engineering problem related to the development of the software and hardware complex. The main problem — building a three-dimensional model of the space around the forklift truck. Most of the training was held in an online format, and this, of course, makes an impact. I would like to note that all teachers of Polytechnic have made every effort to maintain the quality of presentation at a high level. I very much remember the lectures of Professor Vadim ONUFRIEV and Professor Elena RODIONOVA at SPbPU, as well as Professor Mathias TANTAU at Leibniz University Hannover. My nearest plans are to defend my diploma in Germany, and life will show what will happen next.

My graduate work analyzes the effect of parasitic capacitance in a transformer — unwanted capacitive coupling that occurs between conductors or elements of electronic circuits, said Uzoma NWIWU, an SPbPU student from Nigeria. In high-frequency circuits, this can be a serious problem, which I offered a solution to in my work. Studying at SPbPU and Leibniz University Hannover definitely expanded my understanding of my chosen direction. It was not easy to study, and I am grateful to my professors for their support. Prof Elena RODIONOVA, Prof Vyacheslav POTEKHIN, Prof Yuri KOZHUBAEV, Prof Jens FRIEBE, Prof Ludger OVERMEYER, Prof Amir EBRAHIMI, and many others — I am very grateful for your efforts, for sharing with us your useful knowledge in this program. At this time, I hope to consolidate the knowledge and skills I have learned in practice. In the future, I plan to return to academia to improve my qualifications.

In the future, the students will defend their final qualification works in Leibniz University Hannover, after which they will receive two diplomas at once. All those who are interested in studying at Polytechnic and its partner university within the double degree program can find detailed information on the [relevant section](#) of SPbPU.

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