

RF remote control for the overhead crane in the Automation laboratory of the University of Information and Communication Technology.

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Abstract: In the context of the need to improve efficiency and safety in the operation of overhead cranes at the automation laboratory, this topic focuses on researching and deploying a remote control system based on RF waves. The objective of the research is to build and test the system to optimize the management and control of cargo transport activities via overhead cranes. The approach includes synthesizing modern RF wave transmission technology combined with modeling and experimental verification at the practice facility. The expected results from this research will make an important contribution to improving automated operation processes, enhancing system productivity and reliability.

Keywords: Remote control, RF wave, Bridge crane, Automation, Laboratory practice