

overall operation is 70 %. This low accuracy depends on some failure on the movement of robot to the targeted location and the malfunction of RFID Module, while receiving the delivery from the sender. In the meantime, the movement of the robot horn has taken off a set path since the start of the operation. There were instances where a crash occurred while the robot spins to return to its starting point.

TABLE I: TESTING RESULTS OF THE ROBOT MOVEMENT IN CONJUNCTION WITH THE OPERATION OF MENU SYSTEM.

Test No.	Displacement	Displacement	The operation of menu system
	from Point A to B	from Point B to A	
1	Yes	Yes	Yes
2	Yes	No	Yes
3	Yes	Yes	Yes
4	Yes	Yes	Yes
5	No	Yes	Yes
6	Yes	Yes	Yes
7	Yes	Yes	Yes
8	Yes	Yes	Yes
9	Yes	Yes	No
10	Yes	Yes	Yes

VI. CONCLUSION

In the preparation of a robot to deliver documents and small parcels inside the offices in organization, this work can be attained including the working principle of various hardware integrated together in work and built as the automated system to solve problems and reduce the time of delivery of documents within the organization. According to the results of the experiments from testing the movement of robot to the receiver, 80 % was found under normal operation. The 20% in error occurred from the security system and card scanning errors. In overall performance to deliver the documents and materials for the entire robot system, the fairly 70% accuracy to complete assignments can be concluded for our proposed robot. In both mobility and security system a robot can reach the goal and deliver documents. In future work, the modification on hardware will be a major focus to perform assignment more precisely.

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Media Technology Curriculum, King Mongkut's University of Technology Thonburi (KMUTT), Thailand.

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Thaweesak Yingthawornsuk works with department of Media Technology, King Mongkut's University of Technology Thonburi, Thailand. He graduated for Ph.D. degree in Electrical Engineering from Vanderbilt University, TN, USA in 2007.



Srimonpak Suwannakhun works with department of Media Technology, King Mongkut's University of Technology Thonburi, Thailand. She graduated for Ph.D. degree in Program Learning Innovation and Technology, at Faculty of Industrial Education and Technology, King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand in 2017.



Kantapat Kwansomkid studies with department of Media Technology, King Mongkut's University of Technology Thonburi, Thailand. He graduated from Bangpakok Wittayakom school, Thailand in 2020 with Science and Mathematics degree.



Chutimon Anusak graduated for Bachelor's degree in of Media Technology, King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand in 2019.



Panuwat Sopakhom graduated for Bachelor's degree in of Media Technology, King Mongkut's University of Technology Thonburi (KMUTT), Bangkok, Thailand in 2019.