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## CONTACT INFO

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## EDUCATION

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**2017 - 2020** Doctor of Philosophy, Biomedical Engineering  
King Mongkut's Institute of Technology Ladkrabang.

**2004 - 2007** Master of Engineering, Biomedical Electronics Engineering  
King Mongkut's Institute of Technology Ladkrabang.

**1999 - 2002** Bachelor of Engineering, Telecommunication technology  
King Mongkut's Institute of Technology Ladkrabang.

## WORK EXPERIENCE

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**2008 - Present** Lecturer of College of Biomedical Engineering  
Rangsit University, Thailand

# PUBLICATIONS

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## International journals

Yutthana Pititheeraphab, Nuntachai Thongpance, Hisayuki Aoyama and Chuchart Pintavirooj “Vein Pattern Verification and Identification Based on Local Geometric Invariants Constructed from Minutia Points and Augmented with Barcoded Local Feature” *Appl. Sci.* 2020, 10(9), 3192; <https://doi.org/10.3390/app10093192> (registering DOI), 3 May 2020.

R. Chotikunnan, P. Chitikunnan, A. Ma'arif, N. Thongpance, Y. Pititheeraphab, and A. Srisirawat, "Ball and Beam Control: Evaluating Type-1 and Interval Type-2 Fuzzy Techniques with Root Locus Optimization," *International Journal of Robotics and Control Systems (IJRCS)*, vol. 3, no. 2, pp. 286-303, 2023.

P. Chotikunnan, and Y. Pititheeraphab, "Adaptive P Control and Adaptive Fuzzy Logic Controller with Expert System Implementation for Robotic Manipulator Application," *Journal of Robotics and Control (JRC)*, vol. 4, no. 2, pp. 217-226, 2023.

Yutthana Pititheeraphab, Thanapong Chaichana, and Nuntachai Thongpance “Implementation of Electric Wheelchair with Microcontroller” *International Journal of Electronic and Electrical Engineering*, vol4, No.3, June 2016.

Thanapong Chaichana, Yutthana Pititheeraphab, Manas Sangworasil, and Takenobu Masuura “Implementation of Wireless Electrocardiogram Monitoring System” *International Journal of Electronic and Electrical Engineering*, vol4, No.3, June 2016.

## National journals

Pititheeraphab, Y., Angsuwatanakul, T., Pintavirooj, C., & Khemanuwong, T., (2022). Design and Construction of Continuous Passive Motion (CPM) for Arm Rehabilitation Device. *International Journal of Applied Biomedical Engineering (IJABME)*, 15(2), 1-9.

N. Thongpance, T. Kaewgun, A. Wongkamhan, K. Roongprasert, Y. Pititeeraphab, A. Nirapai, and P. Choitkunnan, "Implementation of defibrillator calibrator for working standard," *The International Journal on Applied Biomedical Engineering (IJABME)*, vol. 10, no. 1, pp. 16-23, 2017.

N. Thongpance, P. Chotikunnan, S. Pata, S. Thongked, M. Sangworasil, T. Matsuura, Y. Pititeeraphab, R. Chotikunnan, and J. Dhamarak, "The application of PID control to robotic head," in *Proc. 2017 Biomedical Engineering International Conference (BMEiCON-2017)*, Hokkaido, Japan, September 2017.

## International Proceeding

Yutthana Pititheeraphab and Chuchart Pintavirooj “Identity Verification Using Geometry of Human hands” *The 2018 Biomedical Engineering International Conference (BMEiCON-2019)*.

Y.Pititeeraphab, P.Choitkunnan, N.Thongpance, K.Kullathum, C.Pintavirooj. "Robotarm Control System using LEAP Motion Controller" Proceedings of The Third International Conference on Biomedical Engineering (BME-Hust 2016). P109-112.

Yutthana Pititheeraphab and Chuchart Pintavirooj "BIOMETRIC AUTHENTICATION USING PALM DORSAL VEIN PATTERNS" The 2019 Biomedical Engineering International Conference (BMEiCON-2019).

Y. Pititeeraphab, T. Jusing, P. Chokulranun, N. Thongpance, and Ch. Pintavirooj, "Robot-arm control system using LEAP Motion controller," in Proc. BME-HUST 2016 International Conference on Bio-Medical Engineering, 2016.

Y. Pititeeraphab, T. Jusing, P. Chotikunnan, N. Thongpance, W. Lekdee, and A. Teerasoradech, "The effect of average filter for complementary filter and Kalman filter based on measurement angle," in Proc. 2016 Biomedical Engineering International Conference (BMEiCON-2016), Laung Prabang, Laos, December 2016.

Y. Pititeeraphab, T. Chaichana and N. Thongpance. Implementation of Electric Wheelchair with Microcontroller. 2015 International Conference on Control, Automation and Robotics : (ICCAR 2015), Singapore

Y. Pititeeraphab, M. Sangworasil. Design and Construction of System to Control The Movement of The Robot Arm. The 2015 Biomedical Engineering International Conference. (BMEiCON-2015).

Nuntachai Thongpance, Yuttana Pititeeraphab, Matida Ophasphanichayakul. (2012). The Design and Construction of Infusion Pump Calibrator. The 2012 Biomedical Engineering International Conference. (BMEiCON-2012).

Y. Pititeeraphab P. Kumwong N. Thongpance. Design and Development of a Hand Movement Controlled Robotic Hand. Proceedings of the 2014 Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology Conference (ECTI-CARD 2014).P48

## **National Proceeding**

Angsuwatanakul, T., Pititeeraphab, Y., Thongpance, N., Phairot, E., & Khemanuwong, T. (2022). Incorporating Project-based Learning (PBL) in Designing Medical Electronics Modules: An X-Ray Reconstruction System with Line Photo Detectors Project. Proceedings of the 5th International Conference on Applied Liberal Arts: ICAA 2022. COUNCIL\_CERTIFIED. King Mongkut's Institute of Technology Ladkrabang, Thailand. (20 May 2022)

Yuttana Pititeeraphab Hataigan Ongsaard, THE DESIGN AND CONSTRUCTION OF ACCESS CONTROL AND MONITORING OF AUTOMATED MEDICATION DISPENSING CABINET. Proceedings of the 2013 Biomedical Engineering International Conference (BMECON-2013). P26-29

Y. Pititeeraphab M. Sangworasil, Rapid Prototyping using 3D printing technology.Proceedings of the 2013 Biomedical Engineering International Conference (BMECON-2013). P58-62

Yuttana Pititeeraphab, A STUDY ON THE DESIGN AND CONSTRUCTION OF VITAL SIGNS METER USING FPGA.Proceedings of the 2012 Biomedical Engineering International Conference (BMECON-2012). P18-22

Yuttana Pititeeraphab, DESIGN AND CONSTRUCTION OF WIRELESS ECG MONITOR. Proceedings of the 2012 Biomedical Engineering International Conference (BMECON-2012). P6-9.