

**UCSI University**  
***Faculty of Engineering, Technology & Built Environment***



*Full Name*

Fong Yu Chooi, Albert

*Current Position*

Lecturer.

*Academic Qualifications*

M.Electrical Engineering (Universiti Tenaga Nasional)

B.Eng(Hons) in Electronics Majoring in Robotics & Automation  
(Multimedia University),Malaysia.

Dip. Electronic Eng. Majoring in Control System & Instrumentation  
(Politeknik Sultan Salahuddin Abdul Aziz Shah),Malaysia.

*Professional Bodies*

Graduate Member of The Institution of Engineers Malaysia (IEM,  
Malaysia)

Member of Institution of Engineering & Technology (IET, UK)

*Research (any on-going / completed research project)*

1. Vice-Chair of Electrical Power & Control Group
2. Development of Electromagnetism-Like (EM) Embedded Smart Controller for Energy Wastage Diagnosis and Optimization of Machine Efficiency (On-Going)
3. Research Project Code: Proj- In-FETBE-016 (On-Going)

*Publications (Journal)*

[1] F.Y.C. Albert, , C.H.S. Mason, C.K.J. Kiing, K.S. Ee, K.W. Chan "Remotely Operated Solar-powered Mobile Metal Detector Robot ",Procedia Computer Science Volume 42, 2014, Pages 232–239,Medical and Rehabilitation Robotics and Instrumentation (MRR12013)

*Publications (Conference)*

[1] C.H.S Mason, Y. William, F.Y.C. Albert, S. Darmandran, "Design and Implementation of Sub-GHz Wireless Light Switch with Integrated Wi-Fi", 2014 IEEE International Conference on Communication, Networks and Satellite (COMNETSAT 2014) Jakarta, 4-6 November 2014.

[2] C.H.S Mason, K.W. Out, F.Y.C. Albert, T.H. Tan, "Development of a Portable Centrifugal Machine for Microfluidic and Nanofluidic Platform for Clinical Application", 2014 IEEE Conference

**UCSI University**  
**Kuala Lumpur Campus**

No. 1 Jalan Menara Gading, UCSI Heights, 56000 Cheras, Kuala Lumpur, W. P. Kuala Lumpur.  
Tel: 03-91018880 Fax: 03-91023606 Website: [www.ucsi.edu.my](http://www.ucsi.edu.my)

on Biomedical Engineering and Sciences (IECBES 2014) Conference, 8th-10th December 2014 Miri, Sarawak, Malaysia.

[3] F.Y.C. Albert, C. K. Loo, “Rapid Prototyping of Dextrous Robotic Hand”, IEEE National Exhibition on Robotics & Automation & Conference on innovative Technologies in Intelligent Systems and Industrial Applications (Citisia), Nov 17th -19th 2007, Monash University, Malaysia.

[4] F.Y.C. Albert, S.P. Koh, S.K. Tiong, C.P. Chen, F.W. Yap, “Inverse Kinematic Solution in Handling 3R Manipulator via Real-Time Genetic Algorithm”, 3rd International Symposium on Information technology, ITSIm 2008, 26-29th August, 2008, Universiti Kebangsaan Malaysia.

[5] F.Y.C. Albert, S.P. Koh, S.K. Tiong, C.P. Chen, F.W. Yap, “Real-Time Genetic Algorithm Solution in Handling 3R Manipulator”, 6th. Student Conference on R&D, SCORED 2008, 19-20th August, 2008, Tenaga Nasional University, Selangor, Malaysia.

[6] C.P. Chen, S.P. Koh, I.B. Aris, F.Y.C. Albert, S.K. Tiong, “Path Optimization Using Genetic Algorithm in Laser Scanning System”, 3rd International Symposium on Information technology, ITSIm 2008, 26- 29th August, 2008, Universiti Kebangsaan Malaysia.

[7] C.P. Chen, S.P. Koh, S.K. Tiong, F.Y.C. Albert, “Implementing Genetic Algorithm in Laser Scanning Path Optimization”, 6th Student Conference on R&D, SCORED 2008, 19-20th August, 2008, Universiti Tenaga Nasional, Selangor, Malaysia.

[8] C.P. Chen, S.P. Koh, I.B. Aris, F.Y.C. Albert, S.K. Tiong, “Path Optimization in Laser scanning System”, International Conference on Science & Technology, ICSTIE 2008, 12-13th December, 2008, Mara Technology University, Penang, Malaysia.

[9] F.Y.C. Albert, S.P. Koh, C.P. Chen, C.K. Loo, S.K. Tiong, “Path Control of Dexterous Robotic Hand Using Genetic Algorithm”, 4th International Conference on Autonomous Robots and Agents, ICARA 2009, 10-12th February, 2009, Massey University, Wellington, New Zealand.

[10] F.Y.C. Albert, S.P. Koh, C.P. Chen, S.K. Tiong, S.Y.S. Edwin, “Optimizing Joint Angles of Robotic Manipulator Using Genetic Algorithm”, 2009 International Conference on Computer Engineering and Applications, ICCEA 2009, 6-8th June, 2009, Manila, Philippine.

[11] Edwin Y.S. Sim, S.P. Koh, C.P. Chen, S.K.Tiong, F.Y.C. Albert “Optimization of Dispensing Parameter Fine Tuning Program

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Using Genetic Algorithm”, Proceedings of 2009 International Conference on Computer Engineering and Applications, ICCEA 2009, 6-8th June, 2009, Manila, Philippine.

[12] F.Y.C. Albert, S.P. Koh, C.P. Chen, S.K. Tiong, S.Y.S. Edwin, “Optimizing Joint Angles of Robotic Manipulator Using Genetic Algorithm”, 2009 International Conference on Computer Engineering and Applications IPCSIT vol.2 (2011) © (2011) IACSIT Press, Singapore.