CURRICULUM VITAE

Sharence Nai Sowat
Department of Biological and Agricultural Engineering,
Faculty of Engineering, Universiti Putra Malaysia,
43400 UPM Serdang, Selangor,

T: +603-8946 4335
F: +603-8946 6425
Email: sharence@upm.edu.my

Education

1. PhD (Agricultural Mechanization and Automation) 2016, Universiti Putra Malaysia, Malaysia.
2. M.S.E. (Mechanical Engineering) 2008, University of Michigan, Ann Arbor, US
3. B.S.E. (Mechanical Engineering) 2005, University of Michigan, Ann Arbor, US

Areas of Interest

1. Robotics and Control Systems
2. Agricultural Machinery Design
3. Automation

Professional Qualification/ Membership/ Affiliation

1. Graduate Engineer, Board of Engineers Malaysia (BEM)
2. Member, Malaysian Society of Agricultural Engineers (MSAE)

Appointments

Position	Duration
1. Lecturer, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	Jan 2017 – to date
2. Tutor, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	July 2006 – Dec 2016
3. Mechanical Designer, Mobile Robotics Lab, University of Michigan, Ann Arbor	May 2005 – Feb 2006

Publications

Journals

1. **Nai Sowat, S.**, Wan Ismail, W.I., Khairunniza-Bejo, S., Mahadi, M.R. 2016. Trend In The Development Of Harvesting Technologies For Oil Palm Fruits In Malaysia, Jurnal Teknologi: Science and Engineering. February 2017 (submitted)
2. **Nai Sowat, S.**, Wan Ismail, W.I., Khairunniza-Bejo, S., Mahadi, M.R. 2017. Development of a Track-Type Locomotive Mechanism Based on Morphological Studies of Oil Palm Trees. International Journal of Agricultural and Biological Engineering: Power and Machinery Systems. December 2016 (submitted)

Conference Proceedings

1. **Nai Sowat, S.**, Wan Ismail, W.I., Khairunniza-Bejo, S., Mahadi, M.R. 2015. Development of Oil Palm Tree Climbing Robot. Paper presented at 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, 7th ICSAFEI2015, Universiti Putra Malaysia. 25-27 August 2015.

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Development of Pruning cum Harvesting Mechanism for Oil Palm.	82,700	2017-2019	Industry

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Muhammad Fuad b. Mohd	Development of An Exoskeleton Design for Oil Palm Harvesting Activities	Ongoing

Teaching Experience

Year	Course Code/Name
First Semester 2006/2007	KKK 3012: Engineering Mathematics II
Second Semester 2006/2007	EAB3502: Machine Design (Lab)
First Semester 2009/2010	ECC3001: Engineering Mathematics I
Second Semester 2014/2015	ECC3002: Engineering Mathematics II
First Semester 2017/2018	EAB3604: Control System Engineering