

Curriculum Vitae

Personal information



First name(s) / Surname(s) **Jack Kie Cheng**
Address No. 19, Lorong Kampung Padang Permai 3 Perkampungan Padang Permai, 25200 Kuantan, Pahang, Malaysia
Telephone(s) +609-5492311 Mobile: +6012-2666053
E-mail jackkie@ump.edu.my, jackkiecheng@gmail.com
Nationality Malaysian
Date of birth 28 October 1982
Gender Female

Education

Dates **12/2005 – 10/2010**
Title of qualification awarded **PhD in Decision Science**
Principal subjects Dissertation Title: A System Dynamics Simulation Approach to Container Terminal Planning
Specialization: System Dynamics, Simulation, Container Terminal, Logistics, Transportation
Name of organisation providing education Universiti Utara Malaysia (Public University)
06010 UUM Sintok, Kedah Darul Aman, Malaysia.
Dates **05/2002 – 09/2005**
Title of qualification awarded **Bachelor of Decision Science with Honours, First Class Honours**
Principal subjects Decision Sciences, Operations Research, Statistics, Mathematics, Information Technology, Management
Name of organisation providing education Universiti Utara Malaysia (Public University)
06010 UUM Sintok, Kedah Darul Aman, Malaysia.

Work experience

Name and address of employer **Faculty of Industrial Management, Universiti Malaysia Pahang
Lebuhraya Tun Razak, 26300 Gambang, Kuantan, Pahang Darul Makmur, Malaysia.**
Type of business or sector Education
Dates **04/2012 – Present**
Position held **Associate Professor**
Main responsibilities Teaching Duties
Undergraduate Courses: Operations Research, Computer Simulation and Modelling, Project Management, Strategic Management
Postgraduate (MBA) Course: Managerial Decision Modelling
Research Interest
System Dynamics, Discrete Event Simulation, Agent Based Modelling, Operations Research, Business Analytics, Humanitarian Operations, Supply Chain Management, Big Data Analytics
Dates **05/2019 – 05/2021**
Position held **Deputy Dean (Academic and Student Affairs)**
Main responsibilities

- Assisting the Dean in strategic oversight of all matters related to teaching and learning, academic administration and student affairs.

Dates	11/2017 – 05/2019
Position held	Coordinator for the Development of New Bachelor Degree Programme - Bachelor of Business Analytics with Honours
Main responsibilities	<ul style="list-style-type: none"> Establishing the concept of the new programme, conducting discussion with industrial expert person and benchmarking againsts local and international universities. Developing the curriculum structure, course outcome and learning outcome for the programme Coordinating the development of teaching plan for all courses in the programme. Preparing all related official paperworks at university level Drafting and preparing the submission of <i>Mesyuarat Saringan Awal</i> documents, Malaysian Qualifications Agency (MQA-01) documents and Ministry of Higher Education documents Organizing the required / forecasted resources – academic staffs, machines, equipment, etc.
Dates	02/2014 – 12/2015
Position held	Head of Programme (Business Engineering)
Main responsibilities	<ul style="list-style-type: none"> Managing the Bachelor of Business Engineering programme (Double-Degree programme between Universiti Malaysia Pahang, Malaysia and Reutlingen University, Germany). Working closely with Reutlingen University on Joint Board of Examination, Flying Professors assignments and all issues related to the programme. Assisting the MQA accreditation process and stakeholder reviews of the programme. Recommending policies and curriculum improvement periodically. Marketing and promoting the programme locally and internationally.
Dates	06/2013 – 02/2014
Position held	Head of Programme (Project Management)
Main responsibilities	<ul style="list-style-type: none"> Managing the Bachelor of Project Management programme. Managing the assignment of academic staff to courses available in the programme. Assisting the industrial training placement for all Project Management students. Marketing and promoting the programme locally and internationally.
Name and address of employer	TNS Research International Level 33, Menara Multi-Purpose, Capital Square, No. 8 Jalan Munshi Abdullah, Kuala Lumpur 50100, Malaysia.
Type of business or sector	Service, Market Research Consultancy
Dates	12/2010 – 03/2012
Position held	Research Executive
Main responsibilities	<ul style="list-style-type: none"> Managing projects from drafting proposals to the delivery of presentations, project implementation, analysis of results and reporting. Tracking marketing and sales trends, analysing collected data, gathering data on competitors, analysing their prices, sales, and method of marketing and distribution. Servicing clients by understanding the clients' business need and finding solutions through application of research methods and techniques.
Name and address of employer	Intel Malaysia Lintang Bayan Lepas 2, Bayan Lepas Free Industrial Zone Phase 4, 11900 Bayan Lepas, Pulau Pinang, Malaysia.
Type of business or sector	Manufacturing, Semiconductors
Dates	04/2005 – 06/2005
Position held	Internship
Main responsibilities	<ul style="list-style-type: none"> Working with the Solver Solution Engineering Team (SSET) which is responsible in solving issues and problems in the supply chain using Optimization Technique.

Personal skills and competences

Language(s)

Self-assessment

English (IELTS Band 7)

Malay

Mandarin

Understanding		Speaking	Writing
Listening	Reading		
Proficient	Proficient	Proficient	Proficient
Proficient	Proficient	Proficient	Proficient
Intermediate	Basic	Basic	Basic

Social skills and competences

Communication Skills:

- Delivering lectures by simplifying complicated theories into meaningful example and discussing ideas with students.
- Supervising students' project and research work.

Team Work and Intercultural Skills:

- Working with universities from Germany, Indonesia and Vietnam to co-organize the first International Business Engineering Conference, IBEC 2016 in Kuala Lumpur, Malaysia.

Organisational skills and competences

Project Management Skills:

- Organizing and coordinating industrial talk and visits as part of the students' Industrial Field Project. Successfully organized visits to six different companies such as Volvo Car Manufacturing Malaysia, Vacuumschmelze Malaysia and Pharmaniaga Manufacturing Berhad.
- Developing the curriculum for a new bachelor degree programme that focuses on Big Data Analytics. Ongoing task includes information gathering and close discussion with companies like Bosch Malaysia to ensure the practicality and relevancy of the developed curriculum.

Computer skills and competences

Proficient with the following software:

- Microsoft Office programmes (Word, Excel, Power Point)
- Simulation modelling software (iThink, STELLA, Arena)

Awards and Recognitions

Year	2017
Type of award	Research Award
Award name	Best Paper Award in the International Symposium & Exhibition on Business and Accounting 2017 (ISEBA 2017) Title of Paper: A System Dynamics Model to Understand the Interrelationship Between Different Knowledge Areas in Construction Project
Awarding body	Universiti Tenaga Nasional
Year	2015
Type of award	Research Award
Award name	Bronze Medal in Creation, Innovation, Technology & Research Exposition (CITREX) Title of Paper: An Artificial Intelligence techniques and Simulation Model to Control Traffic Jam System in Malaysia
Awarding body	Universiti Malaysia Pahang
Year	2014
Type of award	Public Service Recognition
Award name	Excellent Service Awards 2014
Awarding body	Universiti Malaysia Pahang

Research and Publication

Type of project	Research Projects
Role	Project Leader
Project title	<ul style="list-style-type: none"> Development of a System Dynamics Model to Assess the Effectiveness of Intervention Strategies in Responding to COVID-19 Pandemic in Malaysia (Ongoing) A Hybrid Simulation Model to Evaluate the Performance of Lean Manufacturing Implementation (Completed) Modelling and Simulation of Green Logistics: Case Study in Malaysian Automotive Industry (Completed) A New System Dynamics Model to Assess the Interconnectivity and Interrelationship between different Knowledge Areas in Project Management Body of Knowledge (Completed)
Role	Project Member
Project title	<ul style="list-style-type: none"> The Role of Educational Supply Chain Management (EDUSCM) in Developing Professional (Ongoing) A Decision Model for the Selection of Projects in Construction Program Management (Completed) A New Forecasting Algorithms for Performance Measurement in Manufacturing Industries (Completed) Improving an Emergency Department Flows Through Modelling and Simulation (Completed) Improve an Assembly Line Processing by Using Integrated Model (Completed)
Type of project	Consultation Projects
Role	Project Member
Project title	<ul style="list-style-type: none"> Universiti Certificate Authentication Using Blockchain Technology – In collaboration with the Academic Management Division, Universiti Malaysia Pahang (Completed) The Halal Certification Process and Market Study for Halal Gelatine Supply Chain – In collaboration with Majlis Amanah Rakyat, a Malaysian government agency (On going) Understanding the Market Environment of Agarwood Oil through Value Chain Analysis – In collaboration with a biosynthetic company (Completed)
List of publication	<ul style="list-style-type: none"> Zulkipli, F, Nopiah, Z.M., Basri, N.E.A, Cheng, J.K. & Khuzairi, M.A.Z. (2018). Prototype PMSP System Development for Operational Level in Solid Waste Management. <i>The Journal of Social Sciences Research</i>. 6, 83-89 Zulkipli, F, Nopiah, Z.M., Basri, N.E.A, Cheng, J.K. (2018). Dynamical integrated framework development of solid waste management in Malaysia. <i>International Journal of Engineering and Technology (UAE)</i>. 7, (4), 21-24 Cheng, J.K., & Malik, Z. A. & Sorooshian, S. (2017). Understanding the interrelationship between different knowledge areas in PMBOK through the development of system dynamics model. <i>The Social Sciences</i>. 12, (3), 473-481 Matsekh-Ukrayinsky, L., Cheng, J.K., Greiner, P. & Gruneward, H. (2017). Curriculum design for the German language class in the double-degree programme business engineering. <i>Journal of Humanities, Language, Culture and Business</i>. 1, (1), 184-193 Salman, A, Razman, M.T., Cheng, J.K. & Liu, Y. (2017). Public Acceptance of Residential Photovoltaic Technology in Malaysia. <i>PSU Research Review</i>. 1, (3), 242-254 Faridah, Z., Zulkifli, M. N, Noor, E. A. B., Cheng, J.K. & Januri S.S. (2017). Multilinear Regression Analysis on Solid Waste Generation Quantity in Malaysia towards Sustainable Development. <i>International Journal of Advanced and Applied Sciences</i>. 4, (9), 46-52 Alghail, A. A., Liu, Y., Cheng, J.K. & Alkaws, J. (2017). The Effect of Knowledge Management Capabilities on Project Management Success. <i>International Journal of Business Management</i>. 2, (2) Malik, Z. A. & Cheng, J.K. (2017). A System Dynamics Model to Understand the Interrelationship between Different Knowledge Areas in Construction Project. <i>International Journal of Business Management</i>. 2, (1) Jomaa, K.A.R & Cheng, J.K. (2017). An Integrated Model to Control Traffic Lights Controlling of Traffic Lights in Multiple Intersections Using Fuzzy Logic and Genetic Algorithm. <i>Asian Journal of Business and Management, Asian Online Journal</i>. 5, (1), 12-20 Oludapo, S. Fadzline, P. & Cheng, J.K. (2016). Development of Performance Model for Quality and Process Improvement in Business Process Service Industry. <i>International Journal of Quality Research</i>. 11, (2), 295-314

- Abduaziz, O., Atnaw, S. M., **Cheng, J.K.** & Singh, L (2016). Improving energy efficiency for the vehicle assembly industry: A discrete event simulation approach. *IOP Conference Series: Materials Science and Engineering*. 160 (1)
- Abduaziz, O., Atnaw, S. M., **Cheng, J.K.** & Singh, L (2016). Modeling energy efficiency as a green logistics component in vehicle assembly line. *IOP Conference Series: Materials Science and Engineering*. 160 (1)
- Malik Z.A. & **Cheng, J.K.** (2016). Using system dynamics simulation to understand the feedback process in a construction project. *International Journal of Industrial Management*.
- Oludapo, S. Fadzline, P., **Cheng, J.K.** & Ayodele, O. (2016). Business Process Outsourcing Industry: A Lean-Agile Performance Model Validation. *SSRN. Elsevier*
- Mat Ali, S.A., Sorooshian, S. & **Cheng, J.K.** (2016). Modelling for Causal Interrelationships by DEMATEL. *Contemporary Engineering Sciences*. 9, (9), 403-412
- Abduaziz, O., **Cheng, J.K.**, Tahar, R.M. & Varma, R. (2015). Green manufacturing and logistics in automotive industry: A simulation model. *IEEE*
- Abduaziz, O., **Cheng, J.K.**, Tahar, R.M. & Varma, R. (2015). Evaluating the environmental impact of inbound logistics in automotive assembly line: A system dynamics approach. *IEEE*
- Faridah, Z., M. N., Noor, E. A. B. & **Cheng, J.K.** (2015). Estimation on amount of sustainable solid waste generation. *Journal of Engineering Science and Technology*
- Al Amry, F. & **Cheng, J.K.** (2015). E-voting risk and risk management evaluation using analytical hierarchy process: The case of Oman. *International Journal of Electronics Communication and Computer Engineering*. 6 (4), 453-459
- Abduaziz, O., **Cheng, J.K.**, Tahar, R.M. & Varma, R. (2015). A hybrid simulation model for green logistics assessment in automotive industry. *Procedia Engineering*. 100, 960-969.
- Abduaziz, O., **Cheng, J.K.**, Tahar, R.M. & Varma, R. (2015). Assessment of green logistics based on shipment release policies in automotive industry. Presented at NCON 2015, Universiti Malaysia Pahang.
- Oumer, A. J., **Cheng, J. K.**, Sorooshian, S. & Razman, M.T. (2014). A hybrid simulation model for green logistics assessment in automotive industry. Presented at 25th DAAAM Symposium on Intelligent Manufacturing & Automation, Vienna, Austria.
- Akhwanzada, S. A., Razman, M.T. & **Cheng, J. K.** (2014). Simulating the effect of feed-in tariff on renewable energy penetration: A System Dynamics Approach. *Proceedings of the International Conference on Science, Technology and Social Sciences (ICSTSS) 2012*. 717-721. Springer Singapore
- Adham, A.A.J., Razman, M.T. & **Cheng, J.K.** (2013). Modelling the unbalancing problems at the assembly lines of automobile production using mixed approach. Presented at the 2nd International Conference on Global Optimization and its Applications (ICoGOIA 2013), Malacca, Malaysia
- Fazeeda M., Razman, M.T. & **Cheng, J.K.** (2013). Measuring performance efficiency of oil palm plantations using window Analysis. *Oil Palm Industry Economic Journal*. 13(1), 22-34
- F. Siali, L. Yao and **Cheng, J.K.** (2013). Inventory management and logistics cost reduction: A Case of a Malaysia Herbal Medicine Company. *Technology and Investment*. 4(3), 204-212.
- **Cheng, J.K.**, Razman, M.T. & Ang, C.L (2011). A system dynamics approach to operational and strategic planning of a container terminal. *International Journal of Logistics Systems and Management*. 10 (4), 420-436
- **Cheng, J.K.**, Razman, M.T. & Ang, C.L (2011). Interactive microworlds for container terminal. *International Journal of Modelling in Operations Management*. 1 (3), 289-309
- **Cheng, J.K.**, Razman, M.T. & Ang, C.L (2010). Understanding the complexity of container terminal operation through the development of system dynamics model. *International Journal of Shipping and Transport Logistics*. 2, (4), 429-443