

Mohd Zulkifli Mohd Zaki

Software Engineer · Computer Scientist

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Currently completing his PhD at RWTH Aachen University. Natively speaks and writes in Malay, but have high proficiency in English, as well as German language as I have been living in Germany for more than 4 years.

Interests

Embedded Software, Model-based Analysis and Design, Software Engineering, Software Quality, Natural Language Processing

Education

RWTH Aachen University , Aachen, Germany <i>Candidate of Ph.D. (Informatik) - Thesis Writing Stage</i>	2014 – PRESENT
Universiti Teknologi Malaysia , Johor Bahru, Malaysia <i>Master of Science (Computer Science) by Research</i>	2010 – 2012
Universiti Teknologi Malaysia , Johor Bahru, Malaysia <i>Bachelor of Science (Computer Science) with 1st Class Honours</i>	2005 – 2008

Employment

RWTH Aachen University , Aachen, Germany <i>Doctoral Researcher, Lehrstuhl Informatik Embedded Software</i>	2014 – 2018
Universiti Teknologi Malaysia , Johor Bahru, Malaysia <i>Academic Tutor (DA41), School of Computing</i>	2009 – 2014
Universiti Teknologi Malaysia , Johor Bahru, Malaysia <i>Assistant Research Officer, Software Engineering Research Group</i>	2008 – 2009
ANR Research Sdn. Bhd. , Johor Bahru, Malaysia <i>Software Engineer (Intern)</i>	2007

Honours & Awards

Universiti Sains Malaysia , RLKA Doctoral Fellowship	2014 – PRESENT
Malaysia , Higher Education Institutional Academic Scholarship	2014 – 2018
MySEC2013 Conference , Best Paper Award	2013
PECIPTA2013 Exhibition , Silver Medal Award	2013
INATEX2012 Exhibition , Gold Award	2012
States of Terengganu , Best Graduates Academic Award	2012
MTE2010 Exhibition , Gold Award	2010
IEEE SCORED2008 Conference , Best Poster Award	2008
Universiti Teknologi Malaysia , 1st Class Honour Merit Award	2008
Universiti Teknologi Malaysia , Best Academic Award	2008
Universiti Teknologi Malaysia , Best Student Award	2008

Professional Membership

- Graduate Technologist**, Malaysia Board of Technologists (Reg.No: GT20060147)
- Member**, Malaysian Software Engineering Interest Group (MySEIG)
- Member**, Universiti Teknologi Malaysia Alumni Society (No.: 2670)
- Member**, International Association of Engineers (IAENG) (No:128951)

Publications

S.A. Halim, D.N.A. Jawawi, N. Ibrahim, **Mohd Z.M. Zaki** and Safaai Deris. (2015). Multi Attribute Architecture Design Decision for Core Asset Derivation. *Jurnal Teknologi (Science and Engineering)*, Vol.77, No.9, pp.75-87.

D. N.A. Jawawi, R. Mamat, F. Ridzuan, M. Khatibsyarhini and **Mohd Z.M. Zaki**. (2015). Introducing computer programming to secondary school students using mobile robots. *2015 10th Asian Control Conference (ASCC2015)*, Kota Kinabalu, pp.1-6, DOI 10.1109/ASCC.2015.7244750.

Mohd Z.M. Zaki, Dayang N.A. Jawawi and Mohd Adham Isa. (2015). *Integrated MARTE-based Model for Designing Component-Based Embedded Real-Time Software*. *International Journal of Software Engineering and Its Application*, Vol.9, No.3, pp.157-174.

Mohd Z.M. Zaki, Dayang N.A. Jawawi, Norazian M. Hamdan, Shahliza Abd. Halim, Rosbi Mamat, Fairuz S. Mahat and Nur Athirah Omar. (2013). *Multi-Criteria Architecture Style Selection for Precision Farming Software Product Lines using Fuzzy AHP*. *International Journal of Advances in Software Computing and Its Application*, Vol.5, No.3, pp.1-23.

Mohd Z.M. Zaki, M.A. Isa and Dayang N.A. Jawawi. (2011). *Meta-model Validation of Integrated MARTE and Component-Based Methodology Component Model for Embedded Real-Time Software*. *Communications in Computer and Information Science*, Vol.181, Software Engineering and Computer Systems. Part 1, pp. 246-256.

Mohd Z. M. Zaki and Dayang Norhayati Abang Jawawi. (2011). *Model-Based Methodology for Implementing MARTE in Embedded Real-Time Software*. *2011 IEEE Symposium on Computers&Informatics (ISCI2011)*, Kuala Lumpur, 20-22 Mac 2011, pp.536-541

Project & Grant

Member , An Analytical Model for Reliability Estimation using Integrated Tasks and Resources, <i>Malaysia Ministry of Education FRGS Research Grant</i> , MYR115,000. Malaysia	2013 – 2015
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Member , Component-based Software Engineering Approach for Automated Embedded Precision Farming Systems, <i>Malaysia Ministry of Science and Technology eScience Research Grant</i> , MYR163,840. Malaysia	2013 – 2015
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Intellectual Property

Copyright . 1JLD48 (20). Code Generation Implementation Steps for Embedded Real-Time System Development. <i>Universiti Teknologi Malaysia, Johor Bahru, Malaysia</i>	2013
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Contribution

MEMBER	UTM Faculty of Computing FYE Programme Team	2010-2014
MEMBER	UTM Faculty of Computing Web Management Team	2009-2012
MEMBER	UTM RoboKar Programming Fest Organizing Committee	2013-2014
REVIEWER	The 7 th MySEC2013	2013
MEMBER	The 7 th MySEC 2013 Programme Committee	2013
INSTRUCTOR	iCARE Workshop: Problem Solving using RoboKar Programming	2013
MEMBER	UTM Innovation and Creativity Festival Organizing Committee	2012

Referees

Prof. Dr. -Ing. Stefan Kowalewski
Lehrstullenitung (Head of Institute)
RWTH Aachen University
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