Farah Ramadhani

(+60) 0149174451 | hamasah_0k@yahoo.com | 28 years old |Kuala Lumpur, Malaysia

Experience	5 years
Education	University Malaya
	Ph.D Candidate, Engineering (Present)
	Universiti Teknologi Malaysia Master, Computer Science (2014)
	Universitas Andalas Bach Degree, E&E Engineering (2010)
Nationality	Indonesia
PR	Malaysia

Experience

Feb 2015 – Mei2017

Research Assistant
Faculty of Engineering, University of Malaya | Kuala Lumpur, Malaysia

Departement:
Chemical Engineering
Responsibility:
- Optimize and control modeling of Solid Oxide Fuel Cell using Genetic Algorithm.
- Publishing Paper related with optimization and control of SOFC system

Jan 2012 - Aug 2014

Research Assistant
Master by Research, Universiti Teknologi Malaysia (UTM) | Johor, Malaysia

Faculty:
Computer Science, embedded system

Responsibility:
- Design and implement some automation systems using micro-embedded controller
- Develop and debug error of the system using systematic steps

Aug 2010 - Dec 2012

Research Assistant
Graduated research assistant, Universitas Andalas (UNAND) | Padang, Indonesia

Faculty:
Electrical Engineering Departement, Power Control

Responsibility:
- Design and implement AC motor control using computational controller
- Develop fuzzy logic algorithm to control motor AC charging into dc battery
- Test and troubleshoot control system to achieve the stable charging condition for AC motor control

September – November 2008

Practical Work (Internship)
Intership student, Padang Cement (PT.SP) | Padang, Indonesia

Field:
Instrumentation and Control Department

Responsibility:
- Learn the hardware of gas analyzer and analyzing process of gas rate control
- Do the daily report of project progress and special report titled: "System of CO Gas Concentration Analysis in The TOP Preheater Kiln Use URAS 10P "

Aug 2006 – May 2010

Laboratory Assistant

Faculty:
Electrical Engineering, Electronic Industry Laboratory (LEI) | Padang, Indonesia

Responsibility:
- Managing and assisting students according to the syllabus of practical of Electrical Engineering Department
- Responsible to report the practical result to the Lecturer
- Organize Microprocessor and Digital Electronic workshop for students

Education

2016 - Present

University Malaya
Ph.D candidate in Engineering (Optimization process system)

2012 - 2014

Universiti Teknologi Malaysia
Master's Degree in Computer Science | Malaysia

CGPA	4.0/4
Thesis Title	Power Optimization of Standalone Street Light System using Dynamic Lighting Control Method

2005 - 2010

Universitas Andalas
Bachelor's Degree in Engineering (Electrical/Electronic) | Indonesia

Major	Electrical Engineering
CGPA	3.2/4
Thesis Title	Design and Implementation of Fuzzy Logic Control for Battery Charging to Control Generator

Skills

Advanced	Micro-embedded system, Project in street lighting control, Project in automation system, Codevision AVR 3.0 (C Programming), Fuzzy Logic Control, Genetic Algorithm Optimization
Intermediate	Delphi Programmer, EWB 10 Programmer, PCB Design and fabrication, MATLAB 2013, Academic Writing
Basic	Visual Basic Programmer

Awards

2010	Best graduate of Electrical Engineering Department
2012	Silver medal for industrial automation category, INATEX 2012	University of Technology Malaysia, Johor
2013	Silver medal for embedded wireless system, PECIPTA2013	KLCC, Kuala Lumpur

Languages

Proficiency level: 0 - Poor, 10 - Excellent

Language	Spoken	Written	Relevant Certificates
Bahasa Malaysia	8	8	-
Bahasa Indonesia	9	9	-
English	8	8	-

Additional Info

Other Information

I have experiences in automation system project i.e. waste water treatment, street lighting, and aquaculture system. I have good skill in designing and controlling solar power system, fuel cell system, optimization of process system and energy management system. Moreover, I have an interest in academic writing and have published some articles on international journal (ISI indexed).

Furthermore, I also have experience as an assistant of Electrical Industries Laboratory at Andalas University and 5 years as research assistant of University of Technology Malaysia and University Malaya. My strengths are honest, friendly, hard work, and loyal and I am a dynamic person with strong personality, eager to learn and able to work independently as well as teamwork.

About Me

Gender	Female
Telephone Number	(+60) 149-174451
Address	Blok D-01-10 Perumahan pantai permai, Pantai dalam, Malaysia

Published Paper

2012   Modeling of fuzzy logic control system for controlling homogeneity of light intensity from light emitting diode on 2012 third international conference on intelligent systems modeling and simulation

2013   Novel dual demand side management (2dsm) scheme in optimizing utilization of available power on IEEE computational intelligence society (IEEE CIS)

2013   Optimization of standalone street light system with consideration of lighting control on the international conference on technological advances in electrical, electronics and computer engineering (TAEECE2013)

2017   Optimization with traffic-based control for designing standalone streetlight system: A case study (Renewable Energy, Q2, ISI Indexed, IF 3.404)

2017   Optimization strategies for Solid Oxide Fuel Cell (SOFC) application: A literature survey (Renewable and Sustainable Energy Reviews, Q1, ISI Indexed, IF 6.798)