



Mohd Azfar Bin Miskam

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Personal Details

- Date of Birth : 24/01/1989
- Nationality : Malaysian
- Driving Licence : B2, D

Objective

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts me with responsibilities and challenges.

Experience

- Freelance (IT) August 2020 - Current
Expertise: Service Robotics and IoT, IT, Media Digital Marketing and Consultation

Project(s):

1. Submitted proposal for development of National Smart Laboratory for Covid-19 detection under MARii. - (until "under reviewed" 2020).
2. Online Class for ROS programming for Drone. (Mechanical Engineering Student, UiTM, 2020 & 2021)
3. Online Class of Python Data Analytics for Beginners (Mechanical Engineering Student, UiTM, 2020 & 2021)
4. Development of Low cost POS System for Small Business in Rural Area (2021)
5. Development of Articulated Robotic Eyes with Vision using 3D printed (Self-Interest, 2021)
6. Online Class for Advanced Robotic Development with Python (Politeknik Malaysia, 2021)
7. Development of IoT integration with ERP for Smart Manufacturing - Cosmetics Company (2022)
8. Development of low-cost turtlebot3 robot - on-going project (2022)
9. Participating in MyHackathon 2022 by Cradle Fund (2022)
10. Python Programming Workshop for Automation and AI used for Homes and Robotics (Politeknik Malaysia, 2022)

- **Robopreneur Sdn Bhd**
Manager (Robotic Division)
Company Expertise: Service Robotics and Media Digital Marketing

June 2015 - August 2020

Scope of Work(s):

- Managing staff and robotic laboratory equipments always ready for visiting and events.
- Managing the projects timeline and BOM lists.
- Do robot programming for clients (rental basis for events).
- Became sales support (Technical sales and warranty support).
- Do maintenance for all the robots and all I.T related (Network, PC's, Servers, Printers, Power Point and etc) in the company.
- Do reports and documentations for each projects including the proposal projects.
- Responsible to organizing programming class
- Responsible to proposed new robotic solution to individual client.

Development Project(s):

1. Development of Malaysian 1st Humanoid Robot ADAM - grantt under MoF (stopped at phase 1)
2. Development of Assistant Robot MIKA - proposal project for company (until prototype 1)
3. Development of ARM robot with 3D camera with AI capability - UTEM's lab (completed)
4. Development of Facial Recognition System with age and gender classifications - Company Business Model
5. Development of Basic Robotic Platform ROOKIE - proposal project for company (until prototype 3)
6. Development of Indoor Mobile Platform with Mapping Capabilities - proposal project for company (until prototype 1)
7. Development of Smart Wheel Chair with Kinova Jaco Robotic Arm - Company Business Model

Other Project(s):

- Programming robots (Nao / Pepper / Tapia) for events such as KitKat Green Tea Product Launching, Petronas New System Launching, MARii Launching Ceremony and etc.
- Installation of Smart Attendance with Temperature Screening during Covid-19 breakout (client: UiTM Chancellory, MOSTI main entrance and etc.).

Salary: MYR4,800.00

- **Sesawang Digital Networks Sdn Bhd**
Assistant
Company Expertise: Website builder and marketing consultation

April 2014 - May 2015

Scope of Work(s):

- Do preparation before class started (attendance and materials)
- Runner for events
- Consultant for payment gateway for website

Salary: MYR2,500.00

- **University of MARA Technology**

June 2012 - March 2014

Research Assistant

Research Topic: Interaction between Humanoid Robots and Human for Autistic Children

Scope of work(s):

- Managing research documents and publications
- Do humanoid robots programming based on targeted behaviour (python)
- Do maintenance on the robots and research equipments
- Assisting in hosting research conference under UiTM
- Develop mobile-app for humanoid robot Nao controller for therapist

Salary: MYR1,800.00

- **CTRM Aero Composit Sdn Bhd**

February 2011 - July 2011

Internship

Department: R&D

Task(s):

- Utilize good working knowledge of all technologies used in the development of AirBus honeycomb core
- Ensure effective deployment of all available resources
- Support goal of achieving first time quality and efficiency
- Maintain accurate documentation resulting in shared knowledge of issues and lessons learned

Salary: MYR300.00

Education

- **University of MARA Technology (UiTM)**
Bachelor of Mechanical Engineering (Manufacturing)(Hons.)
3.16 2013
- **University of MARA Technology (UiTM)**
Diploma in Mechanical Engineering
3.14 2010
- **University of MARA Technology (UiTM)**
Pre-Diploma Science
3.42 2006
- **SMK Kangkar Pulai**
SPM
1(1A) 2(2A) 2(4B) 5(6C) 1(7D) 2005
- **SMK Kangkar Pulai**
PMR
1A 6B 1C 2003

Courses

- Introduction to Git and Github, Coursera (Sep 2022)
- Running System Commands in Python, Coursera (Sep 2022)
- Crash Course on Python, Coursera (Sep 2022)
- Basic Mandarin Class, Kunkwan International Mandarin Training Centre (Apr 2020 - June 2020)
- Basic Kotlin Training, Tertiary Courses Malaysia (Feb 2019)
- ROS: Robot Operating System under Ubuntu, Tekbac Group (Sep 2018)

Soft Skills

- Critical Thinking
- Problem Solver
- Teamwork
- Researcher
- Result-Oriented
- Creative
- Passionate
- Fast-Learner

Hard Skills

- HTML5 & CSS3 (9/10)
- Python Programming (7/10)
- Javascripts (6/10)
- Linux Computer System (6/10)
- Computer Vision - OpenCV (6/10)
- Robot Operating System - ROS (7/10)
- C Programming (5/10)
- C++ Programming (5/10)
- Kotlin Programming (4/10)
- Golang Programming (4/10)
- Adobe Illustrator (7/10)
- Adobe Photoshop (6/10)
- Adobe After Effect (4/10)
- Adobe Premier Pro (4/10)
- Solidworks (7/10)
- Catia V5 (7/10)
- Autodesk Fusion 360 (7/10)
- Autodesk Eagle (6/10)
- FreeCad (7/10)
- 3D Printing Technology (7/10)

Publications

- **Author: Study on Social Interaction Between Children with Autism and Humanoid Robot**
Applied Mechanic and Materials. Vol 393. Trans Tech Publications, 2013
- **Author: Encouraging Children with Autism to Improve Social and Communication Skills through the Game-based Approach**
Procedia Computer Science 42 (2014): 93-98
- **Author: Humanoid Robot NAO as a Teaching Tool of Emotion Recognition for Children with Autism using the Android App**
2014 International Symposium on Micro-NanoMechatronics and Human Science (MHS). IEEE. 2014
- **Author: Programming Platform for NAO Robot in Cognitive Interaction Applications**
2014 IEEE International Symposium on Robotics and Manufacturing Automation (ROMA). IEEE, 2014
- **Author: A Questionnaire-based Survey: Therapist's Response on Emotion Gestures using Humanoid Robot for Autism**
2015 International Symposium on Micro-NanoMechatronics and Human Science (MHS). IEEE. 2015
- **Author: Therapists Response Towards using Android App to Control NAO Robot during Intervention Program for Children with Autism**
2015 IEEE International Symposium on Robotics and Intelligent Sensors (IRIS), 2015.

- **Co-author: Humanoid Robot NAO as HRI Mediator to Teach Emotions using Game-centered Approach for Children with Autism**
HRI 2013 Workshop on Applications for Emotional Robots. 2013.
- **Co-author: Development of Interaction Scenarios based on Pre-School Curriculum in Robotic Intervention for Children with Autism**
Procedia Computer Science 42 (2014): 214-221
- **Co-author: Vision Tracking Application for Mobile Navigation using Humanoid Robot NAO**
2015 International Symposium on Micro-NanoMechatronics and Human Science (MHS). IEEE, 2015
- **Co-author: Feasibility of using a Humanoid Robot to Elicit Communicational Response in Children with Mild Autism**
IOP Conference Series: Materials Science and Engineering. Vol. 53. No 1. IOP Publishing, 2013
- **Co-author: Sensor based Mobile Navigation using Humanoid Robot NAO**
Procedia Computer Science 76 (2015): 474-479
- **Co-author: Experimental Framework for the Categorization of Special Education Programs of ASKNAO**
Procedia Computer Science 76 (2015): 480-487
- **Co-author: HRI Assessment of ASKNAO Intervention Framework via Typically Developed Child**
Procedia Computer Science 105 (2017): 333-339
- **Co-author: Development of Face Recognition Algorithm for Enhancement of Social Communication of Robotic Assistive Autism Therapy**
2014 International Symposium on Micro-NanoMechatronics and Human Science (MHS). IEEE, 2014
- **Co-author: Reactive Obstacle Avoidance Implementation for Humanoid Controlled Mobile Platform Navigation**
2016 Asia-Pacific Conference on Intelligent Robot Systems (ACIRS), IEEE, 2016.
- **Co-author: IQ Level Assessment Methodology in Robotic Intervention with Children with Autism**
2015 10th Asian Control Conference (ASCC). IEEE, 2015
- **Co-author: Human-Robot Interaction (HRI) for Children with Autism to Augment Communication Skills**
Applied Mechanics and Materials. Vol. 393. Trans Tech Publications, 2013.
- **Co-author: Data Linking Testing Between Humanoid Robot and IoRT Network Server for Autism Telerehabilitation System Development**
RITA 2018. Springer, Singapore, 2020. 161-169

Interests

- Hiking, Motorsport Gathering, E-Sport, Volunteering, Robotic Development, Learning New Things, Gardening

Languages

- Read - Malay, English
- Write - Malay, English

Reference

- **Ahmad Dhiak Abdul Hashim - "AD Ideas Solutions"**
Founder
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+60194833513
- **Dr. Zulkifli Mohamed - "Universiti Teknologi MARA (UiTM)"**
Senior Lecturer
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+60106051919