

DARWINESWARAN

RAJA LINGAM

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Professional Profile

An independent and self-motivated individual looking for an opportunity in the software engineering field. Enthusiastic, out spoken & a firm believer in the ability of science & innovation to bring forth a better future.

Education

University Sains Malaysia (USM)

B. Eng (Hons) in Mechanical Engineering | Sep 2017-2021

Major GPA: 4.0, CGPA: 3.53

Professional Experience

YTL Construction, System Engineering Graduate. (Oct 2021-Jul 2022)

Involved in Gemas-JB Electrified Double Track Project. Involved with sub-contractors regarding system equipment installation and setup. Manage incoming documents and coordinate with various departments like M&E, Infrastructure and Civil to overcome site clashes and ease site accessibility.

Personal Endeavours

Tour Guide for Exchange Students. (Feb-Mar 2019)

Guided Japanese exchange students from Toyohashi University (TOT) throughout their Penang Island visit. Organized a culture exchange fiesta at the university.

Casino Croupier at Genting Highlands. (May-Sep 2017)

Assisted in cash to chip conversion at the roulette table. Made sure the customers had a smooth game and improved my task management skills.

Software Skills

- Back-end development in Python.
- Extensive experience in Data Analysis & Visualization with WEKA & MATLAB.
- Experience in 3D modeling with Solidworks & CATIA.
- Efficient with Filmora and Photoshop

Selected Projects

Running-Related Injury Classifier	ABU Robocon 2020	Shell Eco Marathon
Used WEKA to build a BayesNet running injury classifier for professional runners using publicly available data from Kaggle.	Involved in development and optimization of passing mechanism for Pass Robot (PR) and kicking mechanism for Try Robot (TR) for Rugby themed competition.	In charge of development of the Ackermann steering model for the eco car & weight distribution of chassis for better stability & energy efficiency.
Drone	Factory Mixer	Face Recognition Model
Designed and built a functional budget drone with laser cut wooden frame and a flight controller to adjust the pitch, yaw and roll motion.	Designed a food mixer model with Solidworks. Performed stress simulation on the components and dynamic motion of fluid flow for mixer.	Developed a face recognition program with MATLAB with reference to ResNet50 with a confusion matrix accuracy of 99.4%.

Language

- Mandarin
- English
- Malay
- Tamil