



## DR. LIYANA BT RAMLI

PENSYARAH UNIVERSITI DS13

### CONTACT

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Kejuruteraan Dan Alam Bina

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 2

### AREAS OF EXPERTISE

Control System Design And Algorithm

Control Optimization Algorithm

Neural Network For Machine Learning

### BIOGRAPHY

A lecturer from Fakulti Kejuruteraan Dan Alam Bina. Holds a Phd in Electrical Engineering.

### ACADEMIC QUALIFICATION

Phd in Electrical Engineering (2019)

Master in Electrical Engineering (2015)

Bachelor in Electrical & Electronic Engineering (2011)

### RESEARCH

#### 1. INTELLIGENT RNN-PID CONTROL OF A SELF-BALANCING WHEELCHAIR FOR MOBILITY ASSISTANCE

2026 ON GOING MAIN RESEARCHER

#### 2. NEW OPTIMAL ENERGY-EFFICIENT CONTROL OF FLEXIBLE SYSTEMS WITH SIMULTANEOUS PAYLOAD HOISTING AND WIND DISTURBANCE

2020 ON GOING MAIN RESEARCHER

#### 3. MODELLING AND CONTROL OF AN AERIAL TRANSPORTATION SYSTEM CARRYING SUSPENDED PAYLOAD

2020 COMPLETED MAIN RESEARCHER

## PUBLICATION

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### 1. COMBINED NEURAL NETWORK-BASED INPUT SHAPING AND FEEDBACK CONTROL OF AN OVERHEAD CRANE

2021 CHAPTER IN BOOK

### 2. EFFICIENT SWING CONTROL OF AN OVERHEAD CRANE WITH SIMULTANEOUS PAYLOAD HOISTING AND EXTERNAL DISTURBANCES

2020 JOURNAL

## AWARDS/RECOGNITION

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### 1. ANUGERAH STAF CONTOH NOVEMBER 2025

2025 UNIVERSITY

### 2. MODELLING AND CONTROL OF AN AERIAL TRANSPORTATION SYSTEM CARRYING SUSPENDED PAYLOAD

2024 Universiti Certificate of appreciation

### 3. FINAL YEAR PROJECT & POSTGRADUATE: RESEARCH & INNOVATION POSTER COMPETITION (RIPC SERIES 1/2023)

2023 NATIONAL

### 4. PERSON-FOLLOWING TELEPRESENCE ROBOT USING YOLO DEEP LEARNING

2023 Antarabangsa Silver

### 5. PERSON-FOLLOWING TELEPRESENCE ROBOT USING YOLO DEEP LEARNING

2023 Universiti Silver