Profile Image

DR. LIYANA BT RAMLI

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CONTACT

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FACULTY
Fakulti Kejuruteraan Dan Alam Bina

SUPERVISION

	COMPLETED	ONGOING
PhD	0	0
Master	0	2

AREAS OF EXPERTISE

- Control System Design And Algorithm
- Control Optimization Algorithm
- Neural Network For Machine Learning

ACADEMIC QUALIFICATION

- 2019 **PhD** - Electrical Engineering
- 2015 **Master** - Electrical Engineering
- 2011 **Bachelor** - Electrical & Electronic Engineering

RESEARCH

1. **INTELLIGENT RNN-PID CONTROL OF A SELF-BALANCING WHEELCHAIR FOR MOBILITY ASSISTANCE**
   2026 | GERAN PENYELIDIKAN FUNDAMENTAL | ON GOING | MAIN RESEARCHER
2. **NEW OPTIMAL ENERGY-EFFICIENT CONTROL OF FLEXIBLE SYSTEMS WITH SIMULTANEOUS PAYLOAD HOISTING AND WIND DISTURBANCE**
   2020 | GERAN KPT | ON GOING | MAIN RESEARCHER
3. **MODELLING AND CONTROL OF AN AERIAL TRANSPORTATION SYSTEM CARRYING SUSPENDED PAYLOAD**
   2020 | GERAN PENYELIDIKAN USIM RACER | COMPLETED | MAIN RESEARCHER

PUBLICATION

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

CONTROL AND MECHATRONICS ENGINEERING IN MULTIPLE APPLICATIONS

2021 | CHAPTER IN BOOK | MAIN AUTHOR

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

MECHANICAL SYSTEMS AND SIGNAL PROCESSING

2020 | JOURNAL | ERA | MAIN AUTHOR

AWARDS/RECOGNITION

1. ANUGERAH STAF CONTOH NOVEMBER 2025

2025 | UNIVERSITY

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

RESEARCH SEMINAR UNIVERSITI SAINS ISLAM MALAYSIA

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

International Expo of Innovation Product and System Design (INVIDE) 2023

2023 | ANTARABANGSA | SILVER

5. PERSON-FOLLOWING TELEPRESENCE ROBOT USING YOLO DEEP LEARNING

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 | UNIVERSITI | SILVER