



## DR. SHAHNURRIMAN BIN ABDUL RAHMAN

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

Thermodynamics

Power Electronics

Power System

Electricity Transmission

### BIOGRAPHY

A lecturer from Fakulti Kejuruteraan Dan Alam Bina. Holds a PhD in Electrical & Electronic Engineering.

### ACADEMIC QUALIFICATION

Phd in Electrical & Electronic Engineering (2019)

Master in Kejuruteraan (elektrik - Kuasa) (2012)

Bachelor in Kejuruteraan (elektrik) (2010)

### RESEARCH

#### 1. ADVANCING BATTERY MONITORING SYSTEM WITH STATE-OF-HEALTH METRIC AT JAYALAX RESOURCES

2025 ON GOING MAIN RESEARCHER

#### 2. INTEGRATING BATTERY MONITORING SYSTEM WITH THE STATE-OF-HEALTH METRIC AT JAYALAX RESOURCES

2025 ON GOING MAIN RESEARCHER

#### 3. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

2022 COMPLETED MAIN RESEARCHER

#### 4. CORROSION-AMPACITY MODELLING FOR AMPACITY PERFORMANCE INDEX FORMULATION ON OVERHEAD CONDUCTORS

2022 ON GOING MAIN RESEARCHER

#### 5. STUDY OF RAINFALL EFFECT TO OPTIMIZE POWER LINES PERFORMANCE

2020 COMPLETED MAIN RESEARCHER

## PUBLICATION

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### 1. HIGH-TEMPERATURE LOW SAG CONDUCTOR: THE NEW TREND TO TRANSMIT ELECTRICITY

2024 CHAPTER IN BOOK

### 2. IOT BASED INDOOR AIR AND WATER QUALITY MONITORING SYSTEM USING NODE-RED

2023 PROCEEDING

### 3. ADVANCING OHL RATING CALCULATIONS: MODELING MIXED-CONVECTIVE COOLING AND CONDUCTOR GEOMETRY

2022 JOURNAL

### 4. EXAMINING THE IMPORTANCE OF CONDUCTOR SURFACE TRAIT ON AMPACITY DETERMINATION

2022 PROCEEDING

### 5. IMPROVING ELECTRO-THERMAL CALCULATION OF OVERHEAD LINES CONDUCTORS FOR MORE ON-GRID RENEWABLE ENERGY RESOURCES

2021 CHAPTER IN BOOK

### 6. IMPACT OF IDEALITY FACTOR AND SEMICONDUCTING MATERIAL ON PV MODULE PERFORMANCES

2020 PROCEEDING

### 7. FINITE ELEMENT MODELING OF OVERHEAD LINE THERMAL RATING METHOD

2019 PROCEEDING

### 8. THERMAL STATE ANALYSIS ON BUNDLED OVERHEAD LINE CONDUCTORS

2018 PROCEEDING

### 9. IMPACT OF SIMPLIFIED CONVECTION MODEL IN OVERHEAD LINES THERMAL RATING CALCULATION METHODS

2018 PROCEEDING

### 10. MODELLING OF CONVECTIVE COOLING ON CONDUCTOR THERMAL RATING METHODS

2017 PROCEEDING

## CONSULTATION/ADULATION

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### 1. BATTERY STORAGE MANAGEMENT SYSTEM (BSMS) AND TECHNICAL KNOWLEDGE TRAINING

2021 NATIONAL TECHNOPRENEUR UNIMAP SDN BHD

## AWARDS/RECOGNITION

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### 1. MUSOLLI COMPANION

2024 Universiti Bronze

### 2. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

2024 Universiti Certificate of appreciation

### 3. PRODUCTIVITY CHAMPION

2023 NATIONAL

#### 4. IOT- BASED BATTERY MONITORING SYSTEM

2022

Antarabangsa

Silver

#### 5. ICE BOX (INDOOR, COMFORT, ENVIRONMENT)

2022

Antarabangsa

Gold