

Profile Image

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Faculty: Fakulti 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

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

GERAN KPT

ON GOING

MAIN RESEARCHER

2. SMART AQUAGUARD: IOT-POWERED WATER QUALITY MONITORING FOR SUSTAINABLE AQUATIC MANAGEMENT

2025

GERAN KPT

ON GOING

CO-RESEARCHER

3. AUTOMATED MACHINE LEARNING SYSTEM FOR INSTALLATION, OPERATION AND MAINTENANCE OF SOLAR PROJECTS USING SATELLITE AND DRONE IMAGERY

2025

GERAN KPT

ON GOING

CO-RESEARCHER

4. IOT BASED SECURED VOICE COMMUNICATION THROUGH ULTRASONIC FENCE

2024

GERAN KPT

ON GOING

CO-RESEARCHER

5. SALAH CHAIR

2023

GERAN PENYELIDIKAN LAB2MARKET

ON GOING

CO-

RESEARCHER

RESEARCH

6. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED MAIN RESEARCHER

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

2022 GERAN KPT ON GOING MAIN RESEARCHER

8. RESOURCE MANAGEMENT OPTIMIZATION IN 6G NETWORK FOR SMART GRID COMMUNICATIONS USING DEEP LEARNING

2022 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

9. DEVELOPMENT OF DATA BASED ENERGY EFFICIENCY MANAGEMENT SYSTEM AT KAMPUS BAROKAH USIM FOR COST EFFECTIVE PRACTISE USING PREDICTIVE AND MACHINE LEARNING CAPABILITY

2022 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

10. DEVELOPMENT OF MOBILE APPLICATION FOR "EDUCATIONAL GAMES FOR KIDS WITH LEARNING DISABILITIES: KID WONDERS - KINDERS"

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

11. INVESTIGATION OF INDUCED VOLTAGE ON UNDERGROUND TRANSMISSION CABLES WITHIN LINE CORRIDORS FOR URBAN PLANNING.

2021 GERAN KPT COMPLETED CO-RESEARCHER

12. STUDY OF RAINFALL EFFECT TO OPTIMIZE POWER LINES PERFORMANCE

2020 GERAN PENYELIDIKAN USIM RACER COMPLETED MAIN RESEARCHER

13. 3D PRINTED EMERGENCY DEVICE (VENTILATOR)

2020 GERAN PENYELIDIKAN COVID-19 COMPLETED CO-RESEARCHER

14. AUTOMATIC DISINFECTION CHAMBER

2020 GERAN PENYELIDIKAN COVID-19 COMPLETED CO-RESEARCHER

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

2020 GERAN PENYELIDIKAN USIM RACER COMPLETED CO-RESEARCHER

16. DESIGN AND DEVELOPMENT OF PERSONAL PROTECTIVE EQUIPMENT (PPE) BOX FOR HEALTHCARE APPLICATION

2020 GERAN PENYELIDIKAN COVID-19 COMPLETED CO-RESEARCHER

17. A NEW PARAMETRIC MODULE OF THERMAL AND LIGHTING BASED ON SOLAR CELL FACADE SYSTEM IN SCHOOL

2020 GERAN KPT COMPLETED CO-RESEARCHER

18. MODELLING OF QUANTUM BASED TUNNEL DIODE FOR THZ MEDICAL IMAGING

2019 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

19. SURVIVORS IDENTIFICATION AND LOCALIZATION FOR SAR ROBOTICS SYSTEM USING MACHINE LEARNING

2019 GERAN SEPADAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

PUBLICATION

1. ENHANCING THE CULTIVATION OF MOINA SP.: AN INTEGRATION OF AERATION SYSTEM WITH GREEN WATER DETECTION AND PH MONITORING

PRZEGLAD ELEKTROTECHNICZNY

2024 JOURNAL SCOPUS CO-AUTHOR

2. ANALYSIS OF UNDERGROUND TRANSMISSION CABLE AMPACITY FOR ON-SITE APPLICATIONS

JOURNAL OF ELECTRICAL AND ELECTRONIC SYSTEMS RESEARCH

2024 JOURNAL MYCITE CO-AUTHOR

3. ASSESSING THE IMPACT OF GALVANIC CORROSION ON THE PERFORMANCE OF ACSR/TW AND ACCC/TW CONDUCTORS

2024 IEEE 4TH INTERNATIONAL CONFERENCE IN POWER ENGINEERING APPLICATIONS (ICPEA)

2024 PROCEEDING SCOPUS CO-AUTHOR

4. DEVELOPMENT OF BATTERY MONITORING SYSTEM FOR POWER GENERATORS: INSIGHTS AND EXPERIENCE

2024 POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC)

2024 PROCEEDING NON-INDEX CO-AUTHOR

5. ANALYSIS OF ELECTRIC FIELD ON OVERHEAD DISTRIBUTION LINE DUE TO LIGHTNING STRIKE

2024 POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC)

2024 PROCEEDING NON-INDEX CO-AUTHOR

6. PALM OIL AS A TRANSFORMER INSULATING FLUID: A REVIEW

2024 POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC)

2024 PROCEEDING NON-INDEX CO-AUTHOR

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

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK MAIN AUTHOR

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

9TH INTERNATIONAL CONFERENCE ON COMPUTER AND COMMUNICATION ENGINEERING (ICCE 2023)

2023 PROCEEDING SCOPUS MAIN AUTHOR

9. DESIGN OF SINGLE STAGE C BAND ERBIUM DOPED FIBER AMPLIFIER (EDFA) FOR OPTICAL COMMUNICATION TECHNOLOGIES IN SCIENCE AND ENGINEERING : A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

10. COMPARISON TECHNIQUES FOR OPTIMIZATION SWITCHING FREQUENCY IN ENERGY ENCRYPTION OF WIRELESS POWER TRANSFER SYSTEM

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2022 JOURNAL MYCITE CO-AUTHOR

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

IEEE TRANSACTIONS ON POWER DELIVERY

2022 JOURNAL ISI MAIN AUTHOR

12. EXAMINING THE IMPORTANCE OF CONDUCTOR SURFACE TRAIT ON AMPACITY DETERMINATION

2022 IEEE INTERNATIONAL CONFERENCE IN POWER ENGINEERING APPLICATION (ICPEA)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

13. AN ILLEGAL DUMPING DETECTION SYSTEM BASED ON IMAGE PROCESSING IN OPENALPR

ASM SCIENCE JOURNAL

2021 JOURNAL SCOPUS CO-AUTHOR

PUBLICATION

14. THE BENEFIT OF RAIN ON ELECTRICAL POWER DELIVERY

THE 7TH INTERNATIONAL CONFERENCE ON QURAN AS FOUNDATION OF CIVILISATION (SWAT2021)

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

15. BLUEPRINT KELESTARIAN USIM: MENYEMARKKAN KAMPUS BARAKAH

2021 BOOK CO-AUTHOR

16. ANALYSIS OF CURRENT-VOLTAGE CHARACTERISTICS ASSOCIATED TO THE QUANTUM STRUCTURE OF ASYMMETRIC SPACER LAYER TUNNEL DIODE (ASPAT): A PROMISING TERAHERTZ DEVICES

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

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

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK MAIN AUTHOR

18. EFFECT OF THE DOPING CONCENTRATION AND JUNCTION DEPTH ON THE PERFORMANCE OF SOLAR CELLS

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

19. EMOTION DETECTION BASED ON AUDIO/VOICE SIGNAL FOR AUTISM SPECTRUM DISORDER (ASD) USING CORRELATION METHOD

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

20. RADIO OVER FIBRE FREE SPACE OPTICS (ROFSO) SYSTEM

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

21. EFFECT OF THE SLOT SHAPE AND GROUND PLANE ON THE MICROSTRIP PATCH ANTENNA PERFORMANCE

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

22. APPLICATION OF FINITE ELEMENT METHOD (FEM) IN THE ELECTRICAL SAFETY ASSESSMENT

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021 CHAPTER IN BOOK CO-AUTHOR

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

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS 2020)

2020 PROCEEDING NON-INDEX MAIN AUTHOR

24. DESIGN OF A LOW-COST AUTOMATIC DISINFECTION CHAMBER

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS 2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

25. DC ANALYSIS OF GAAS/ALAS SINGLE BARRIER ASYMMETRIC SPACER TUNNEL DIODE

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS 2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

26. AUTOMATED MOTION DETECTION SECURITY SYSTEM NOTIFIER USING RASPBERRY PI WITH TELEGRAM

2020 IEEE SYMPOSIUM ON INDUSTRIAL ELECTRONICS & APPLICATIONS (ISIEA)

2020 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

27. FINITE ELEMENT MODELING OF OVERHEAD LINE THERMAL RATING METHOD

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019 (SAIS2019)

2019 PROCEEDING NON-INDEX MAIN AUTHOR

28. NON-EQUILIBRIUM GREENS FUNCTION ON GAAS/ALAS DOUBLE BARRIER QUANTUM WELLS RESONANT TUNELLING DIODE

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019

2019 PROCEEDING NON-INDEX CO-AUTHOR

29. PERFORMANCE ANALYSIS OF SISO AND MISO FSO COMMUNICATION UNDER MALAYSIA WEATHER CONDITION BY EMPLOYING OPTISYSTEM

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019 (SAIS 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

30. STUDY OF THE FLOW AROUND A HEATED CYLINDER IN MIXED CONVECTION REGIME

DIRECT AND LARGE-EDDY SIMULATION XI

2019 CHAPTER IN BOOK CO-AUTHOR

31. EFFECT OF LARGE SCALE 3-D STRUCTURES ON THE FLOW AROUND A HEATED CYLINDER AT LOW REYNOLDS NUMBER

FLOW, TURBULENCE AND COMBUSTION

2018 JOURNAL SCOPUS CO-AUTHOR

32. THERMAL STATE ANALYSIS ON BUNDLED OVERHEAD LINE CONDUCTORS

MEDITERRANEAN CONFERENCE ON POWER GENERATION, TRANSMISSION, DISTRIBUTION AND ENERGY CONVERSION (MEDPOWER 2018)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

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

2018 IEEE/PES TRANSMISSION AND DISTRIBUTION CONFERENCE AND EXPOSITION (T&D)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

34. MODELLING OF CONVECTIVE COOLING ON CONDUCTOR THERMAL RATING METHODS

2017 IEEE MANCHESTER POWERTECH

2017 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

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

TECHNOPRENEUR UNIMAP SDN BHD

2021

NATIONAL

AWARDS/RECOGNITION

1. MUSOLLI COMPANION

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024

UNIVERSITI

BRONZE

2. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

RESEARCH SEMINAR UNIVERSITI SAINS ISLAM MALAYSIA

2024

UNIVERSITI

CERTIFICATE OF APPRECIATION

3. PRODUCTIVITY CHAMPION

2023

NATIONAL

4. IOT- BASED BATTERY MONITORING SYSTEM

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022

ANTARABANGSA

SILVER

5. ICE BOX (INDOOR, COMFORT, ENVIRONMENT)

Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA22)

2022

ANTARABANGSA

GOLD