Profile Image

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PENSYARAH UNIVERSITI DS14

CONTACT

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FACULTY
Fakulti Kejuruteraan Dan Alam Bina

SUPERVISION

	COMPLETED	ONGOING
PhD	0	2
Master	3	4

AREAS OF EXPERTISE

- Sensor Technology In Control And Instrumentation
- Digital Tomography (including Computer Tomography)
- Optical And Optoelectronics Engineering

ACADEMIC QUALIFICATION

- 2016 **PhD** - Kejuruteraan Elektrik
- 2013 **Master** - Kejuruteraan Elektrik- Mekatronik Dan Kawlan Automatik
- 2008 **Bachelor** - Kejuruteraan Elektrik- Kawalan Dan Instrumentasi

RESEARCH

1. **ARTIFICIAL INTELLIGENCE APPLICATIONS FOR INDUSTRIAL PIPELINE INTEGRITY MONITORING**
   2025 | BIDUNI MIZANNIYAH | ON GOING | MAIN RESEARCHER
2. **GOLD AUTHENTICATION SYSTEM**
   2025 | GERAN PENYELIDIKAN INDUSTRI | ON GOING | MAIN RESEARCHER
3. **INVESTIGATING THE POTENTIAL OF PORTABLE WATER QUALITY INSPECTION SYSTEM INTEGRATED WITH TF MINI-S LIDAR AND IOT MONITORING SYSTEM**
   2024 | GERAN ANTARABANGSA | ON GOING | MAIN RESEARCHER
4. **SALAH CHAIR**
   2023 | GERAN PENYELIDIKAN LAB2MARKET | ON GOING | MAIN RESEARCHER
5. **DEVELOPMENT OF UPPER LIMB EXOSKELETON SYSTEM**
   2023 | GERAN PEMBANGUNAN INOVASI (GPI) | ON GOING | MAIN RESEARCHER

RESEARCH

6. DEVELOPMENT OF MOBILE APPLICATION FOR WOMEN'S "PRELOVED" BUSINESS PLATFORM: FASHION ARCHADE (FACADE)

2022 | GERAN PENYELIDIKAN AGENSI KERAJAAN | COMPLETED | MAIN RESEARCHER

7. CONCEPTUAL MODELLING OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

2022 | GERAN PENYELIDIKAN USIM | ON GOING | MAIN RESEARCHER

8. A CONCEPTUAL MODELLING OF QUANTITATIVE GRADING VALUATION OF RUBY STONE VIA USING CHARGE-COUPLED DEVICE (CCD) TOMOGRAPHY APPROACH

2020 | GERAN KPT | COMPLETED | MAIN RESEARCHER

9. SECURITY-HARDENED DESIGN SPACE EXPLORATION FOR HARD REAL-TIME EMBEDDED NOC IN CYBER-PHYSICAL SYSTEMS

2018 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. ASAM DI DARART, IKAN DI LAUT, DI DALAM BELANGA BERTEMU JUGA

ASPIRASI DAN MEMOIR HAL EHWAL PELAJAR DAN ALUMNI- MERENTAS SEJARAH MENJANA IMPAK

2025 | CHAPTER IN BOOK | MAIN AUTHOR

2. SIMULATION STUDY OF ULTRASONIC TOMOGRAPHY APPROACH IN DETECTING FOREIGN OBJECT IN MILK PACKAGING

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2023 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

3. RESILLIENT LIVING BY OPTIMIZING THE BUILDING FA�ADE IN DESIGNING POST-COVID HOUSING

PLANNING MALAYSIA JOURNAL

2022 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

4. ONLINE SIMULATION TO MONITOR MULTIPHASE FLOW USING LASER SOURCE AS TRANSMITTER

OPTIK-INTERNATIONAL JOURNAL FOR LIGHT AND ELECTRON OPTICS

2021 | JOURNAL | ISI, SCOPUS AND ERA | MAIN AUTHOR

5. AN APPLICATION OF CHARGE-COUPLED DEVICE (CCD) TOMOGRAPHY SYSTEM FOR GEMOLOGICAL INDUSTRY - A REVIEW

INNOVATIVE MANUFACTURING, MECHATRONICS AND MATERIALS FORUM 2021

2021 | PROCEEDING | NON-INDEX | MAIN AUTHOR

6. THE DEVELOPMENT OF SALAH CHAIR USING ELECTRONIC SENSOR TO ASSIST DISABLED MUSLIMS IN PERFORMING PRAYERS

REKA ELKOMIKA: JURNAL PENGABDIAN KEPADA MASYARAKAT

2020 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

PUBLICATION

7. A STUDY OF OBJECT TRANSPARENCY VIA CHARGE-COUPLED DEVICE MATHEMATICAL MODELLING ASSESSMENT

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR

8. CCD OPTICAL TOMOGRAPHY SYSTEM TO DETECT SOLID CONTAMINATION IN CRYSTAL-CLEAR WATER

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS

2020 JOURNAL SCOPUS MAIN AUTHOR

9. CYBER-PHYSICAL SYSTEM (CPS) APPLICATION_A REVIEW

REKA ELKOMIKA: JURNAL PENGABDIAN KEPADA MASYARAKAT

2020 JOURNAL OTHER DATABASE MAIN AUTHOR

10. A STUDY ON EARLY DETECTION OF SEWER PIPELINE BLOCKAGE USING CCD TOMOGRAPHY APPROACH

IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE, 3RD INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING 18 NOVEMBER 2020

2020 PROCEEDING NON-INDEX MAIN AUTHOR

11. CHARGE-COUPLED DEVICE OPTICAL TOMOGRAPHY SYSTEM FOR AIR BUBBLES DETECTION

2020 BOOK MAIN AUTHOR

12. DEVICES IN OPTICS, TOMOGRAPHY AND BIOSENSING

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK MAIN AUTHOR

13. STATISTICAL ANALYSES IN VALIDATING THE PERFORMANCE OF OPTICAL TOMOGRAPHY SYSTEM IN MEASURING OBJECT DIAMETER

EMERGING THEMES IN FUNDAMENTAL AND APPLIED SCIENCES

2019 CHAPTER IN BOOK MAIN AUTHOR

14. OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE FOR TRANSPARENT OBJECT DETECTION

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS MAIN AUTHOR

15. ANALYSIS ON THE EFFECT OF SENSOR VIEWS IN IMAGE RECONSTRUCTION PRODUCED BY OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE

IEEE TRANSACTIONS ON IMAGE PROCESSING

2018 JOURNAL WOS MAIN AUTHOR

16. TOMOGRAPHY VALIDATION METHOD THROUGH STATISTICAL ANALYSIS OF VARIANCE TECHNIQUE

SYMPOSIUM ON INSTRUMENTATION AND SENSING TECHNOLOGY (SOINSET) 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

17. CYBER-PHYSICAL SYSTEM (CPS): STATE OF THE ART

IEEE ICE CUBE 2018 : INTERNATIONAL CONFERENCE ON COMPUTING, ELECTRONIC AND ELECTRICAL ENGINEERING

2018 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

18. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM FOR MONITORING TWO-PHASE FLOW

ELECTRONIC LETTERS

2017 JOURNAL WOS MAIN AUTHOR

19. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM FOR MONITORING MULTIPHASE FLOW

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2017 JOURNAL SCOPUS MAIN AUTHOR

20. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM IN DETECTING SOLID AND TRANSPARENT OBJECTS IN NON-FLOWING CRYSTAL CLEAR WATER.

INTERNATIONAL JOURNAL OF LIGHT AND ELECTRON OPTIC, ELSEVIER

2017 JOURNAL WOS MAIN AUTHOR

21. IMAGE RECONSTRUCTION MODELLING FOR OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE (CCD) LINEAR SENSOR

THE 3RD PUTRAJAYA INTERNATIONAL BUILT ENVIRONMENT, TECHNOLOGY AND ENGINEERING CONFERENCE 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

22. STATISTICAL ANALYSES IN VALIDATING THE PERFORMANCE OF OPTICAL TOMOGRAPHY SYSTEM IN MEASURING OBJECT DIAMETER

FUNDAMENTAL SCIENCE CONGRESS 2017 (FSC2017) ON 21ST TILL 22ND NOVEMBER 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

23. OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE FOR TRANSPARENT OBJECT DETECTION

INTERNATIONAL WORKSHOP ON COMPUTED TOMOGRAPHY AND IMAGING TECHNOLOGY

2017 PROCEEDING NON-INDEX MAIN AUTHOR

24. ONLINE OPTICAL TOMOGRAPHY SYSTEM FOR DETECTING AND MEASURING DIAMETER OF SOLID AND TRANSPARENT OBJECTS

IEEE SENSOR JOURNAL

2016 JOURNAL WOS MAIN AUTHOR

25. OPTICAL TOMOGRAPHY SYSTEM: APPLICATION OF CHARGE COUPLED DEVICE FOR SOLID AND TRANSPARENT OBJECT DETECTION

JURNAL TEKNOLOGI

2016 JOURNAL SCOPUS MAIN AUTHOR

26. ONLINE OPTICAL TOMOGRAPHY SYSTEM APPLICATION OF CHARGE-COUPLED DEVICE (CCD) FOR OBJECT DETECTION IN CRYSTAL CLEAR WATER.

FLOW MEASUREMENT AND INSTRUMENTATION

2016 JOURNAL WOS MAIN AUTHOR

27. ONLINE OPTICAL TOMOGRAPHY SYSTEM APPLICATION OF CHARGE-COUPLED DEVICE (CCD) FOR OBJECT DETECTION IN CRYSTAL CLEAR WATER

JOURNAL OF INDEPENDENT STUDIES AND RESEARCH ? COMPUTING

2016 JOURNAL OTHER DATABASE MAIN AUTHOR

PUBLICATION

28. INTRODUCING AN APPLICATION OF A CHARGED COUPLED DEVICE (CCD) IN AN OPTICAL TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS MAIN AUTHOR

29. ANALYSIS ON THE PERFORMANCE OF LED AND LASER DIODE WITH CHARGE COUPLED DEVICE LINEAR SENSOR MEASURING DIAMETER OF OBJECT.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS MAIN AUTHOR

30. A REVIEW OF THE OPTICAL TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2014 JOURNAL SCOPUS MAIN AUTHOR

31. A REVIEW OF TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2013 JOURNAL SCOPUS MAIN AUTHOR

32. OPTICAL TOMOGRAPHY SYSTEM FOR BUBBLES DETECTION IN LIQUID MEDIUM.

ELECTRICAL ENGINEERING RESEARCH COLLOQUIUM FOR ELECTRONICS, POWER, INSTRUMENTATIONS AND CONTROL AND COMMUNICATIONS

2013 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

1. 100 A NEUTRAL LINK TNBL/QA/BHG.1/PC/N/21/0480

TNB LABS SDN. BHD.

2023 NATIONAL

2. INSULATION PIERCING CONNECTORS FOR CONNECTION OF LOW VOLTAGE BARE CONDUCTOR TO AERIAL BUNDLE CABLE

TNBR

2023 NATIONAL

3. 100A NEUTRAL LINK

TNB LABS SDN BHD

2022 NATIONAL

AWARDS/RECOGNITION

1. ANUGERAH PENYELIDIK HARAPAN SAINS, TEKNOLOGI DAN PERUBATAN 2024

2025 UNIVERSITY

AWARDS/RECOGNITION

2. PENCAPAIAN LAPORAN NILAI PRESTASI TAHUNAN MELEBIHI 95% 2024

2025 UNIVERSITY

3. STAFF CONTOH 2024

2025 UNIVERSITY

4. ANUGERAH MYAKRAB TERBAIK 2024

2025 UNIVERSITY

5. ANUGERAH PENYELIDK TERBAIK FKAB 2025

2025 UNIVERSITY