



**PROF. MADYA IR. DR.
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Address: Fakulti
Kejuruteraan Dan Alam Bina

SUPERVISION

PhD - Completed: 8, Ongoing: 0

Master - Completed: 2, Ongoing: 0

AREAS OF EXPERTISE

Navigation And Positioning System

Satellite Geodesy And Positioning

Digital Image Processing Algorithm And Techniques

BIOGRAPHY

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

ACADEMIC QUALIFICATION

Phd in Kejuruteraan (2012)

Master in Kejuruteraan (2007)

Bachelor in Kejuruteraan (2001)

RESEARCH

1. QURANIC SIGN LANGUAGE DETECTION SYSTEM USING LSTM NEURAL NETWORK

2024 ON GOING MAIN RESEARCHER

2. INVARIANT KALMAN FILTERING FOR LOW-COST PEDESTRIAN NAVIGATION SYSTEM

2021 ON GOING MAIN RESEARCHER

3. NEW MOTION SEGMENTATION FOR VEHICLES IN URBAN TRAFFIC SCENES

2018 COMPLETED MAIN RESEARCHER

4. A FORMULATION OF AN ENHANCED AIRLIGHT DETECTION ALGORITHM FOR OUTDOOR IMAGES

2013 COMPLETED MAIN RESEARCHER

5. AUTOMATIC IMAGE ENHANCEMENT TOOL FOR POOR VISIBILITY OUTDOOR IMAGES

2013 COMPLETED MAIN RESEARCHER

6. EVALUATING NETWORK PERFORMANCE OF DEDICATED WIFI ROUTERS

2013 COMPLETED MAIN RESEARCHER

PUBLICATION

1. INDOOR POSITIONING SYSTEMS: TECHNOLOGIES AND SELECTION STRATEGIES

2025 JOURNAL

2. QURANIC SIGN LANGUAGE RECOGNITION: CHALLENGES AND FUTURE DIRECTIONS FOR EDGE-AWARE SYSTEMS

2025 PROCEEDING

3. INVARIANT EXTENDED KALMAN FILTER FOR LOW-COST FOOT-MOUNTED INERTIAL PEDESTRIAN NAVIGATION

2024 PROCEEDING

4. FROM MELAKA TO NOTTINGHAM

2024 CHAPTER IN BOOK

5. A USER REQUIREMENT STUDY TOWARDS THE DEVELOPMENT OF AN INTEGRATED GRADUATE PORTAL (IGP) FOR GRADUATE MARKETABILITY

2017 PROCEEDING

6. DEVELOPMENT OF INTEGRATED GRADUATE PORTAL (IGP) FOR GRADUATE MARKETABILITY

2017 PROCEEDING

7. TEST

2017 POLICY

8. ROTATING A MEMS INERTIAL MEASUREMENT UNIT FOR A FOOT MOUNTED PEDESTRIAN NAVIGATION

2015 JOURNAL

9. ON MAGNETOMETER HEADING UPDATES FOR INERTIAL PEDESTRIAN NAVIGATION.

2014 JOURNAL

10. INCREASED ERROR OBSERVABILITY OF AN INERTIAL PEDESTRIAN NAVIGATION SYSTEM BY ROTATING IMU.

2014 JOURNAL

11. UNDERSTANDING THE PERFORMANCE OF ZERO VELOCITY UPDATES IN MEMS-BASED PEDESTRIAN NAVIGATION.

2014 JOURNAL

12. ROTATING MEMS IMU FOR PEDESTRIAN NAVIGATION

2013 PROCEEDING

13. USING CONSTRAINTS FOR SHOE MOUNTED INDOOR PEDESTRIAN NAVIGATION

2012 JOURNAL

14. AIDING LOW COST INERTIAL NAVIGATION WITH BUILDING HEADING FOR PEDESTRIAN NAVIGATION

2011 JOURNAL

15. INTEGRATING LOW COST IMU WITH BUILDING HEADING IN INDOOR PEDESTRIAN NAVIGATION

2011 JOURNAL

16. INVESTIGATING THE EFFECT OF ROTATING MEMS IMU FOR PEDESTRIAN NAVIGATION

2011 PROCEEDING

17. AIDING MEMS IMU WITH BUILDING HEADING FOR INDOOR PEDESTRIAN NAVIGATION

2010 PROCEEDING

18. PEDESTRIAN NAVIGATION WITH HEADING DRIFT CORRECTION

2010 PROCEEDING

19. LOW-COST, HIGH ACCURACY POSITIONING FOR INDOOR NAVIGATION

2010 PROCEEDING

20. SATELLITE LINK MARGIN PREDICTION AND PERFORMANCE OF ASTRO MALAYSIA

2009 PROCEEDING

CONSULTATION/ADULATION

1. TECHNICAL CONSULTANT FOR PREDICTIVE AND CORRECTIVE MAINTENANCE PROJECT, TRUCK MONITORING SYSTEM

2021 NATIONAL JHC LOGISTICS

2. PERKHIDMATAN KONSULTANSI MEMBANGUNKAN PROGRAM SARJANA MUDA SAINS SENIBINA DENGAN KEPUJIAN KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

National KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

AWARDS/RECOGNITION

1. ANUGERAH KHAS FKAB JA'IZAH AL KHASSAH

2025 OTHERS

2. CONFERENCE PAPER REVIEWER

2025 INTERNATIONAL

3. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR CCS PIPELINE INTEGRITY MONITORING

2025 Antarabangsa Silver

4. ANUGERAH PERKHIDMATAN CEMERLANG 2023

2024 UNIVERSITY

5. ACADEMIC ADVISOR

2024 UNIVERSITY