



DR. KHAIRUL NABILAH BINTI ZAINUL ARIFFIN

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Address: Fakulti
Kejuruteraan Dan Alam Bina

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 2

AREAS OF EXPERTISE

Other Electircal And Electronic Engineering

BIOGRAPHY

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

ACADEMIC QUALIFICATION

Phd in Kejuruteraan Elektrik Dan Elektronik (2019)

Master in Kejuruteraan Elektronik (sistem Telekomunikasi) (2013)

Bachelor in Kejuruteraan Elektronik (kejuruteraan Komputer) (2012)

Diploma in Kejuruteraan Elektronik (2009)

RESEARCH

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

2025 ON GOING MAIN RESEARCHER

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

2025 ON GOING MAIN RESEARCHER

3. MODELLING OF SILICON CARBIDE (SiC) SCHOTTKY BARRIER DIODE FOR HIGH-TEMPERATURE TERAHERTZ APPLICATIONS

2024 ON GOING MAIN RESEARCHER

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

2022 COMPLETED MAIN RESEARCHER

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

2019 COMPLETED MAIN RESEARCHER

PUBLICATION

1. A COMSOL MULTIPHYSICS FOR POLY (VINYL-ALCOHOL) PVA HYDROGEL EFFECT ON PHOTOVOLTAIC SOLAR CELL BY USING HEAT TRANSFER MODULE

2024 PROCEEDING

2. SURFACE PLASMON RESONANCE BASED PCF SENSOR FOR DOM DETECTION

2024 PROCEEDING

3. SINGLE MODE FIBER BASED SPR SENSOR FOR THE DETECTION OF AIR CONTAMINANTS

2024 PROCEEDING

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

2023 PROCEEDING

5. NON-EQUILIBRIUM GREENS FUNCTION ON GAAS/ALAS DOUBLE BARRIER QUANTUM WELLS RESONANT TUNNELLING DIODE (RTD)

2019 PROCEEDING

CONSULTATION/ADULATION

1. Penggubal Soalan Basic Engineering 2

National Kementerian Pendidikan Malaysia

2. Pentaksir Soalan Basic Engineering 1

National Kementerian Pendidikan Malaysia

3. Pentaksir Soalan Electrical and Electronic Engineering 2

National Kementerian Pendidikan Malaysia

4. Panel Penasihat Industri (Universiti Awam)

National Universiti Teknikal Malaysia Melaka (UTeM)

AWARDS/RECOGNITION

1. EMPLOYEE OF THE MONTH (JUN 2025)

2025 UNIVERSITY

2. TRAINER / FACILITATOR

2025 NATIONAL

3. ADVISORY / EDITOR / EDITORIAL

2025 NATIONAL

4. ACADEMIC ADVISOR

2025 NATIONAL

5. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR CCS PIPELINE INTEGRITY MONITORING

