

EXPERT PROFILE

DR. SITI NUR HIDAYAH BINTI AB MALEK

- Position: Post-Doctorate Researcher at UNITEN
- Years of professional experience: 6 years
- Research Centre: Institute of Informatics and Computing in Energy (IICE)
- **Research Forte:** Renewable Energy, Energy Power Data Hub, Electrical & Electronic System Design, Signal Processing and Bio-Medical Instrumentation



EDUCATIONAL BACKGROUND

- PhD in Electrical, Electronics & System Engineering @ Universiti Kebangsaan Malaysia
- Master in Electrical Engineering @ Universiti Tun Hussien Onn
- Bachelor of Engineering Technology (Hons) in Medical Electronics @ Universiti Kuala Lumpur, British Malaysian Institute



PROFESSIONAL EXPERIENCE

Dr. Siti Nur Hidayah Binti Ab Malek has 6 years working experience in research and development biomedical engineering particularly in developed new procedures on data acquisition and signal processing techniques for analyze in real data using certain software tools in various technologies. Her main interest in electrical and electronic system design, data analysis and energy power with a skills in communication on data logging system, artificial intelligence and processing big data. In UNITEN, she involve in research energy informatics and particularly in energy data hub, ASEAN energy interconnection and also on power distribution and power consumption at Malaysia. Her professional memberships includes, Board of Engineer Malaysia (BEM) in Electronic, Institute of Engineer Malaysia (IEM) in Bio-Medical as incorporate member, the Malaysia Board of Technologist (MBOT) in Electrical and Electronic Technology and member of International Associations of Engineers (IAENG).

She has been also working as a researcher in energy power under IICE and involve in writing high impact publication in journal, conference, research book and research proposal. She also active as volunteers for several Non-Government Organization (NGO's), can work independently to carry out the task that being given and in team also an instructing to guide a research assistant (RA) that being appoint.

KEY PROJECT HIGHLIGHTS:

- Self-Monitoring Technique for Stroke Prevention among Atrial Fibrillation patients at World Stroke Congress (WSC), Hyderabad (2016)
- Digital Electronics Stethoscope (2011), Design and Development of Wireless Stethoscope with Data Logging Functions (2013) and Evaluation of the Presence of Atrial Fibrillation (AF) from Photoplethysmogram (PPG) analysis (2019)
- Involved in Data Acquisition at Emergency Department Hospital Chancellor Tuanku Mukris (HCTM), Cheras for research testing purpose on the prototype of development of an enhanced low fidelity full face continuous positive airway pressure (CPAP) mask or also known as Disposable Breathing CPAP Mask (2020)