Megat Nurul Anwar Bin Ahmad Nazeri

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Education

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM)
Bachelor of Science (Physics) (Honours) | CGPA: 3.46
Graduated in August 2023
Bachelor Thesis: One Qubit Interaction with a Spin Coherent State with Variations of
Dipole-Interaction Strength in the Majorana Representation

Experience

Quantum Information Research Group
International Islamic University Malaysia (IIUM)
Internship   February 2022 - August 2022
- Conducted research in quantum key distribution (QKD).
- Organised particle physics collaboration event with National Center for Particle Physics (NCPP).
- Hosted the 2022 Science Week at IIUM's Department of Physics.

Private Tutor   February 2021 - December 2023
- Tutored physics undergraduates one-on-one in various subjects, primarily multivariable calculus, classical mechanics 1 and 2, electrodynamics 1 and 2 and quantum mechanics 1.
- Tutored SPM students in maths, science, addmaths, physics and english.

Leadership Experience and Activities

Turtle Conservation Society of Malaysia (TCS)
Kemaman, Terengganu.
Volunteer   2022 - Currently
- Helped with ongoing conservation projects and research of freshwater terrapins in Kemaman.
- Prepared media content such as photographs and videos for social media usage.
- Assisted in conservation awareness events such as talks (CSR, schools), workshops, and ecotourism.

Komunity Sihat Pembina Negara (KOSPEN)
Kemaman, Terengganu.
Volunteer   2021 - Currently
- Managed to host health awareness programmes in collaboration with Pejabat Kesihatan Daerah Kemaman.
- Helped organised a Children and Household Abuse Seminar with shariah lawyers from Pejabat Agama Kemaman.

Projects

SPS4211 Final Project
International Islamic University Malaysia (IIUM)
- Created a smart cupboard using Arduino which includes a temperature sensor, a humidity sensor and climate control to keep clothing dry as opposed to a traditional cupboard.

RaspberryPi Deep Learning WPA Password Cracker
- Developed an AI-powered WiFi hacking tool that autonomously optimizes WPA/WPA2 password cracking through passive data capture.
- Implemented machine learning algorithms to enhance the tool's efficiency in capturing handshakes and cracking networks.

ESP8266 Deauther
- Created and configured an ESP8266 Deauther, a WiFi penetration testing tool that exploits the 802.11 protocol to perform deauthentication attacks.
- Programmed the ESP8266 microcontroller to disconnect devices from targeted WiFi networks, aiding in network security testing and vulnerability assessments.

Skills & Interests

Technical: MS Office, Python, Bash, Git, Linux, Markdown, LaTeX, Matlab, Embedded Systems, Network Security.
Language: English, Malay.
Social Skills: Able to host workshops, resolve conflicts and have effective verbal communication.
Interests: Theoretical Physics and Cybersecurity. Currently learning about Security Operations Centre tools.