



**EUR ING Ts. Dr. Abdulhafid M A Elfaghi, PhD, CEng MIMechE, P.Tech (AV) MBOT**

### **Biography**

Abdulhafid M. A. Elfaghi is a professional engineer with extensive expertise in aerospace and mechanical engineering. He earned his PhD in Engineering from the Mechanical Engineering Department (Aerospace) at the International Islamic University Malaysia (IIUM). He also holds an MSc in Mechanical Engineering from the University Putra Malaysia (UPM) and a BSc in Aeronautical Engineering from the Engineering Academy Tajoura in Libya.

Currently, Dr. Elfaghi serves as an assistant professor in the Mechanical and Manufacturing Engineering department at the University of Tun Hussein Onn Malaysia (UTHM), a position he has held since 2019. In addition to his teaching responsibilities, he is the Principal Researcher of the Flow Analysis, Simulation, and Turbulence Research Group at UTHM.

Previously, Dr. Elfaghi held significant academic and administrative roles at the University of Zawia in Libya, including Professor, Dean of the Faculty of Engineering, and General Director of the Scientific Research and Consultancy Centre. He also served as an Assistant Professor in the Aerospace Engineering Department at the Engineering Academy Tajoura.

Dr. Elfaghi is a Chartered Engineer (CEng) in the UK and holds the title of European Engineer (EUR ING) awarded by ENGINEERS EUROPE, and a professional technologist (P.Tech) from Malaysia Board of Technologists (MBOT). He is also registered with the Board of Engineers Malaysia. His scholarly contributions include over 30 peer-reviewed publications in his field.

## **Developing Engineering Skills through Outcome-Based Education (OBE)**

### **Abstract:**

This keynote speech will explore how Outcome-Based Education (OBE) can improve engineering education. It will focus on what students need to achieve by graduation. The speech will explain OBE as a shift from traditional teaching to ensuring students gain key skills like technical

knowledge, problem-solving, teamwork, and communication skills. The importance of OBE in engineering will be highlighted to show how OBE aligns education with industry needs, helping prepare students for real world challenges. The positive impact of OBE on engineering programs will be highlighted by sharing real-life examples and success stories. The speech will also discuss common challenges in adopting OBE and offer practical solutions. Continuous improvement will be emphasized to keep education effective and relevant.