Curriculum Vitae

Personal Data

Name Ezideen A Hasso
Nationality British, Iraqi

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Education

PhD 1990-1994

Electrical Engineering Department, **University of Manchester**, Manchester, United Kingdom. Thesis on integrated circuit testing, devised a special purpose computer language (Test Interface Language TIL) together with the necessary hardware. TIL produced two executable target files one for the physical testing and the other was to test the simulation on the design software package of the Uncommitted Logic Arrays (ULA) of Ferranti.

MSc 1979-1981

Electrical Engineering Department, University of Baghdad, Baghdad, Iraq. These two years Master degree comprised of a year of intensive taught courses which covered **Electronics, Computers and Communication** systems and then followed by a one year research. My MSc thesis work was in the field of industrial electronic where I had to build a Digital Planimeter for the leather industry **Bata Company** the shoes and suitcase maker. Thesis "Design and Implementation of Digital Planimeter for Irregular Shapes".

BSc 1974-1978

Electrical Engineering Department, **University of Mosul**, Mosul, Iraq. The courses included Electrical Engineering, Electronics and Communication. The final year project was about temperature control system of an industrial freezer.

Personal Profile and Attribute

- An articulate and fluent communicator; flexible; responsive and goal-oriented achiever.
- A self-driven confident, individual who is promptly responsive to change and pressure.
- A self-motivated and positive responder with a deep sense of urgency to challenge.
- A quick learner with a profoundly practical approach to problem solving and containment.

Employment

1/9/2013 to date

- Tutor for Postgraduate Studies, Technical College of Engineering, Duhok Polytechnic University, Duhok, Kurdistan Iraq.
- Head of Department, Technical College of Engineering, Duhok Polytechnic University, Duhok, Kurdistan Iraq. (till 1/10/2017)
- Teaching Electrical Technology, Industrial Equipment, Control engineering and MATLAB programming as well as Modelling on SIMULINK.
- Part of a research team in collaboration between (Kurdistan and German) Universities (This project is funded by **DAAD**) **Multiphase Flow Measurement in Oil Industries**.
- Convolution and Laplace transform modelling of Multiphase Flow Measurement (Oil-Gas-Water) (this is a break through technique in the Oil Industry measurement techniques (on-going research)).
- Teaching **Advanced Renewable Energy** (**postgrad course**).
- Teaching and instructing PLC and process control course, this course is based on Siemens Logo plc's using ladder language.
- A **PLC short course (vocational qualification, Duhok)** for the Ministry of Labour and Social Affairs, Kurdistan, Iraq

1/4/2009-30/6/2013

(**Director of Cool Mobile sarl – Consultancy work on Renewable Energy- Morocco)**

- Consultancy in renewable energy; solar energy and wind turbine as well as power electronics.
- Waste management and Bio-digester: producing cooking gas from domestic and farm waste.
- Optimisation of Photovoltaic cells for maximum power performance **MPPT.**
- Magnetic field reduction in residential and commercial dwelling using advanced electrical installation techniques.
- Dwelling insulation for energy optimisation, municipality project.
- Run-of-river Pico and Micro hydraulic power generators for Kurdistan North-Iraq.

7/1/2003-10/11/2008

Company director of **Ever Green Energy ltd** (specialised in renewable energy both solar and wind).

15/1/2001-15/12/2002

Freelance Engineering Work: real estate and property developments in U.K. and built some top market high-tech properties with full-automation such as; **access control** and **security systems** all the units were sold while still under refurbishment and/or construction.

1/4/1995-15/12/2000

- Company director **(Phoenix Sky Ltd).**
- Consultancy work on computer communication and on alternative energy, solar and wind turbine and Hydrogen as fuel.
- Design and installation of Fire and Burglar Alarm Systems as well as security and surveillance cameras.

1/9/1990-30/4/1994

Ph.D. Course, University of Manchester, Integrated Circuit testing technique.

22/5/1986-31/7/1990

- Researcher and part-time lecturer in the University of Manchester, Manchester, U.K.
- Part-time Lecturer, Manchester Polytechnic Institute and UMIST, Manchester.
- Freelance consultancy engineering, Hydrogen gas as fuel and for metal welding.

1/3/1983-15/3/1986

Lecturer University of Saladin, Erbil, Iraq. Teaching control engineering and computer programming languages. As well as teaching, conducted several researches in the field of solar energy and sun tracker systems.

1/7/1981-15/2/1983

- MoD Research and Development Centre; design and implementation of speech encryption systems for radio communications. Solar Panels as back up battery chargers for radio communication systems (quiet and smokeless important for frontline battlefield).
- Designing a Solar Cooker (quiet and fumeless).
- Hydrogen production systems, Hydrogen as fuel and Oxy hydrogen (HHO).
- High voltage PWM for separating nascent H_2 and O_2 gases from water (H_2O).
- Unmanned repeater station for radio communications powered by solar panels.
- Early Warning military defense lines powered by solar energy.
- D.C to A.C. inverters single phase (1ϕ) and three phase (3ϕ).

10/1/1979-31/5/1981

Computer Data Encryption and Decryption techniques for MoD (Ministry of Defence) Computer Centre, Baghdad, Iraq.

1/8/1978-31/12/1978

Engineer and Demonstrator at the Control Engineering and Signal Processing Laboratories, University of Baghdad, Baghdad, Iraq.

Researches and Publications

- **Scientific Planimeter using image processing.**
- **Electro Statically Treated Water**: Molecular Structural Analysis Simulation.
- **Magnetically Treated Water**: Finite difference and Finite Volume Technique Analysis.
- **Currently:**
  - Team leader **Eco House** project Duhok Polytechnic University in Kurdistan - Iraq
  - **Part of German - Iraqi team** on Multi Flow Measurements (Oil-Gas-Water mixture) (*the Project funded by **DAAD***)
  - **Multi Flow measurements** by Image Processing
  - **Magnetically Treated Water** for Concrete industry
- **Bio Fuel** from used cooking oil.
- **Bio Digesters** (waste management) for domestic and commercial scale size, Morocco.
- System Design for **Communication Call Centres**, Riyadh, Saudi Arabia .
- **Test station for Integrated Circuits**, Manchester University, UK.
- **Electron beam lithography:** Electrostatic Blanking System for the electron beam machine, Electrical Engineering Dept., University of Manchester, UK.
- A comparative study of two dimensional equipotential surfaces of an electron beam machine column with and without anode aperture, Electrical Engineering Department, University of Manchester, UK.
- Design and Implementation of **Sun Tracker for Solar Panets**, University of Saladin, Erbil, Kurdistan

- **Water to Fuel for Transportation**, Baghdad, Iraq.
- **Digital Planimeter** for Irregular Shapes, Published in IEEE, Industrial Electronics.

International Organisations Membership and Liaison

- ✓ **Coordinator:** UNDP (United Nations Development Program) Organisation Coordinator for the Duhok Polytechnic University (currently).

- ✓ **Supervisor:** UNDP (United Nations Development Program) Organisation, Supervisor for "Sustainable Energy Innovation Competition" program in Kurdistan (currently).

- ✓ **Member of TEA** (**Thorium Energy Alliance**); educational organization based in the United States, which seeks to promote energy security of the world through the use of thorium as a fuel source.

- ✓ **Member of IEEE** (Institute of Electrical and Electronics Engineering.
- ✓ **British Council Master Trainer for vocational qualification (2017)**

Languages

English: fluent; speaking, reading and writing.
Arabic: fluent; speaking, reading and writing.
Kurdish: Mother tongue

Hobbies

Swimming, flying.