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## **RESEARCH INTERESTS**

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Multivariable controller, Minigrid , converters, PLC, Math lab, Power systems, Renewable energy systems.

## **EDUCATION**

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### **DEng in Electrical Engineering (PhD)**

Cape Peninsula University of technology, South Africa (<https://www.cput.ac.za/> )

**Dissertation:** Design and implementation of multivariable power converter minigrids for embedded generation.

(Ongoing Study)

### **Doctor of Public Administration major in Administrator of Socio-Economic Development**

2018 – August 2020

**Dissertation title:-** Citizens satisfaction with public infrastructure services of local governments in AL Jafara province, Libya.

Tarlac State University, Philippines (<https://www.tsu.edu.ph/>)

### **Master degree in public administration (units earned)**

2018

Tarlac State University, Philippines (<https://www.tsu.edu.ph/>)

### **Master of Electrical Engineering Major in power system**

April 2016- June 2018

Tarlac State University, Philippines (<https://www.tsu.edu.ph/>)

### **CGPA 85%**

**Thesis:** Development of an Automatic Switching and Transfer Load for Emergency Generator Using Programmable Logic Controller

### **ADVANCED DIPLOMA in Electrical Engineering major in power systems**

June 2008- March 2011

Alzakra Higher Institute of Sciences and Technology, Libya (<http://zst.edu.ly/>)

**CGPA 82.4%**

**Thesis:** improving rural areas by using solar panel as electricity source.

### **Higher secondary school**

Al Nasiriya Engineering School, Libya

**Obtained percentage 80%**

Learned basic engineering subjects such as calculus, algebra, physics

### **Advanced English Language Certificate.**

EC language School Cape Town South Africa 2015.

### **Professional Experience**

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#### **Al swani medical centre to rehabilitate people with disabilities and special needs**

Worked as staff member responsible of the electricity in the building from generators, heaters, lightings, also responsible on sewage water treatment and use it to irrigate the gardens within the utility.

### **Skills**

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- HIL Specialist Certification
- Computer programming MATLAB, Python.
- Good skills using Microsoft word, Excel LATEX.
- Good English and Arabic languages skills
- Good time management skills.

### **RESEARCH PUBLICATION**

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1. [Energy and Sustainable Development in Smart Cities: An Overview](#) **Published** in Q1 journal Smart city MDPI 2022.
2. [Wind Turbines Control Trends and Challenges: An Overview](#) **Published** in International Journal of Innovative Research and Scientific Studies 2022
3. [An overview of Renewable Energy Utilization and Developments: Challenges and Opportunities Worldwide](#) **Published** in African Journal of Advanced Pure and Applied Sciences (AJAPAS) 2022.
4. PV STAND-ALONE SYSTEM FOR REMOTE AREAS Proceedings of ICEESEN2022, 1-3 September 2022, Kayseri-Turkiye **Published**.
5. [Optimal Sizing of Stand-Alone Photovoltaic Systems for Rural Electrification](#) in AIUE Proceedings of the 2nd Energy and Human Habitat Conference 2021 **Published**.
6. Centralized control system for islanded minigrid (**Under review**)
7. A Review of AC and DC Microgrid Energy Management Systems (**submitted this to IEEE Access**).
8. Microgrid for rural communities
9. Control of the output voltage with a variable load connected to an LC filter
10. Empowering sustainable cities: the role of energy strategy in smart city innovation and sustainability
11. Solar system and its control strategies: An overview
12. An overview of the microgrid system and its structures and compounds" to EAI Endorsed Transactions on Energy Web (**Submitted since 17-august-2022 waiting for feedback**).

### **ACTIVITIES AND INTERESTS**

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- Admin assistance in the AIUE-EHH2021 international conference held on July, 2021, Cape Peninsula University of technology, Cape Town, South Africa.
- Resource speaker in the international webinar on Pre-Employment and Labour Education for graduating student themed. Held by Tarlac State University, Philippines July 23,2021 Via Zoom.
- Vice Chair (Voluntary) of IET on Campus Cape Peninsula University of Technology branch (2020- present).
- Discipline Specific Tutorial Training on the 20 May 2021 offered by Fundani CHED, South Africa.
- Attended a workshop on RESEARCH METHODOLOGY WORKSHOP held by Cape Peninsula University of Technology 8-12 June 2020
- Seminar on Ethics & Morality held by Tarlac State University, Philippines on September 12, 2019.
- Seminar on how to accelerate Local Economic Development held at the TSU Main AVR, Tarlac City, Tarlac on June 28, 2019.
- Symposium on Comprehensive Land Use Plan held at the TSU CPAG Accreditation Room, Tarlac City, Tarlac on October, 2019.
- Football team player.