

## CV

### **Mohamed G Moh Almihat**

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### **OBJECTIVE**

To obtain a position to enhance and to leverage my expertise to drive innovation and meaningful change. Committed to implementing practical solutions to socioeconomic challenges and advancing sustainable development. Passionate about fostering progress within communities through strategic initiatives and collaboration.

### **Industrial Experience**

#### **Staff member**

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Al swani medical centre to rehabilitate people with  
disabilities and special needs, Libya.

**2012-2014**

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- Generator Maintenance:
  - Heater Management:
  - Lighting Maintenance:
  - Team Management:

### **Professional 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.

### **EDUCATION**

#### **DEng in Electrical Engineering**

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*Cape Peninsula University of Technology, Cape  
Town, South Africa*

**12 December 2023**

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#### **Doctor of Philosophy** (in public administration major in socioeconomic and development)

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*Tarlac State University Philippines*

**August 2020**

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#### **Master of Science in Electrical Engineering Major in power system (MSEE)**

**Advanced Diploma in Electrical Engineering**

Alzahra Higher Institute of Sciences and  
Technology, Libya.

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**March 2011**

**AWARDS**

- 2021 ESKOMTESP BURSARY
- 2021 BURSARY AWARDED
- 2022 Post Grad CPUT Funding
- 2023 Postgraduate CPUT award

**PUBLICATIONS**

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- MGM Almihat, MTE Kahn, Design and implementation of Hybrid Renewable energy (PV/Wind/Diesel/Battery) Microgrids for rural areas, 2023, Solar Energy and Sustainable Development 12 (1), 80-104 2.
- MGM Almihat, MTE Kahn, Centralized control system for islanded minigrid, 2023, AIMS Energy 11 (4), 663-682 3.
- MGM Almihat, MT Kahn, , Wind Turbines Control Trends and Challenges: An Overview, 2022, International Journal of Innovative Research and Scientific Studies 5 (4), 378-390 4.
- MGM Almihat, MTE Kahn, K Aboalez, AM Almaktoof , Energy and Sustainable Development in Smart Cities: An Overview , 2022, Smart Cities 5 (4), 1389-1408 5.
- MGM Almihat, MT Kahn, AM Almaktoof, An overview of Renewable Energy Utilization and Developments: Challenges and Opportunities Worldwide, 2022, African Journal of Advanced Pure and Applied Sciences (AJAPAS), 1-16 6.
- DM Khonani, AM Almaktoof, M Almihat, Optimal Sizing of Stand-Alone Photovoltaic Systems for Rural Electrification, 2021, AIUE Proceedings of the 2nd Energy and Human Habitat Conference
- Ehsan Altayef, Anayi Fatih, AJ Adel, Dhabaa Shaima, H Ehada, BDEREDDIN ABDUL SAMAD, MGM Almihat, AM Almaktoof, Design for a Standalone Wind-Hydrogen Plant A novel in Tripoli-Libya, Publication date 2020/11/24 AIUE Proceedings of the 18th Industrial and Commercial Use of Energy Conference
- Presented a paper PV STAND-ALONE SYSTEM FOR REMOTE AREAS at Conference: PROCEEDINGS OF THE 2nd INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT AND STORAGE OF ENERGY ICEESEN 2022At: Kayseri, Türkiye Issue ISBN: 78-625-00-9020-6 Pages 33-39
- A Review of AC and DC Microgrid Energy Management Systems , AIMS Energy 11 (6), 1031-1069. **Single author**
- MGM Almihat, JL Munda, Review on recent control system strategies in Microgrid, **2024**, Edelweiss Applied Science and Technology 8 (6), 5089-5111

**COMMITTEE INVOLVEMENT**

Cape Peninsula University of Technology

- Session Chair for AIUE-EHH2022 international conference held on November, 2022 in castle of good hope, Cape Town, South Africa.

- Admin assistance in the AIUE-EHH2021 international conference held on July, 2021,
- Cape Peninsula University of technology, Cape Town, South Africa.
- Reviewers for international journals and conferences.
- 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

#### Tarlac State university

- 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
- Seminar on Ethics & Morality held by Tarlac State University, Philippines on September12, 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.

### **PROFESSIONAL AFFILIATIONS**

Cape Peninsula University of Technology (PhD Candidate 2020-2023) Tshwane  
University of Technology (Postdoc researcher 2024- to present)

### **REFERENCES**

**Prof MTE Kahn**, Focus Area Leader: Smart Energy Research Chair: Energy Director: Energy Institute

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**Dr Marco Adonis**, Head of Department Electrical, Electronic and Computer Engineering Cape Peninsula University of Technology  
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**Prof. Atanda Raji**, Associate Professor in Microgrid and Integrated Energy Systems Deputy Director: Energy Institute& HoP: Postgraduate Studies and Research Cape Peninsula University of Technology (CPUT)  
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**Prof. Khaled Aboalez**, Associate Professor: Engineering Management, Postgraduate School of Engineering Management university of Johannesburg

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**Prof Josiah Munda (Current supervisor)**, Director, Centre for Energy and Electric Power (CEEP) Tshwane University of Technology  
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