

**ACADEMIC  
CURRICULUM VITAE**

**1. Name - Surname:** Samuel Nii Tackie

**2. Title:** Assist. Prof. Dr.

**3. Educational Background:**

Degree	Department/Program	University	Year
Bachelor's	Electrical and Electronic Engineering	Ho Technical University	2007
Master's	Electrical and Electronic Engineering	Near East University	2015
PhD	Electrical and Electronic Engineering	Near East University	2021

**4. Master's / PhD Thesis**

**4.1. Master's Thesis Title and Thesis Advisor(s):** Performance Evaluation of Serhatkoy PV PowerPlant. Prof. Dr. Ozgur C. Ozerdem

**4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s):** A Novel Multilevel Inverter Based Dynamic Voltage Restorer Design for Mitigating Voltage Disturbances On Sensitive Loads. Prof. Dr. Ebrahim Babaei.

**5. Academic Titles:**

Date of Assistant Professorship: 19th April 2022

**6. Supervised Master's and PhD Theses:**

**6.1. Master's Theses**

- Brendon Kudakwashe Kurehwatira 20195101, Switched Inductor Capacitor Based DC-DC Converter for PV Applications. 2021/2022 Fall Semester.
- Salim Tsowa Mohammed, 201961481, 6MW Electric Power Generation in Nigeria Using Photovoltaic System and High Voltage Gain Converters. November, 2022.
- Ndey Jallow 20202975, High Voltage Gain DC-DC Converter Based On Modified Quasi Z-Source and Switched Capacitor Network. October, 2022.

- NENUBARI MARVIN KOMI 20205254, 31-levels cascaded multilevel inverter with less components. October, 2022.
- Alexander Saa Bundoo 20213584, Building Integrated Photovoltaic, a Case Study for Near East University Campus. May, 2023.
- Bashar Ahmed Taheer 20206050, Design of a Three-Phase Multilevel Inverter with Minimum Component Count. June, 2023

## 6.2. PhD Theses

## 7. Publications

### 7.1. Articles Published in International Peer-Reviewed Journals (SCI,SSCI, AHCI, ESCI, Scopus)

- S.N. Tackie, "New Cascaded Multilevel Inverter Based DVR for Power Disturbance Mitigation", International Journal on "Technical and Physical Problems of Engineering" (IJTPE) Issue 55, Volume 15, Number 2, June 2023.
- S.T. Mohammed, S.N. Tackie, L.E. Vafaei, K. Dimililer, "Electric Power Generation Design and Estimation Using Photovoltaic Technology", International Journal on "Technical and Physical Problems of Engineering" (IJTPE) Issue 57, Volume 15, Number 4, December 2023.
- S.N. Tackie, N.M. Komi, O.C. Ozerdem, "31-Level Single-Phase Cascaded Inverter with Minimal Component Count", International Journal on "Technical and Physical Problems of Engineering" (IJTPE) Issue 55, Volume 15, Number 2, June 2023.
- S.N. Tackie, "A Review of Control Techniques in AC/DC and Hybrid Microgrid", International Journal on "Technical and Physical Problems of Engineering" (IJTPE) Issue 55, Volume 15, Number 2, June 2023.
- S. N. Tackie and Ö. C. Özerdem, "Performance Evaluation and Viability Studies of Photovoltaic Power Plants in North Cyprus," International Journal of Renewable Energy Research, vol. 12, no. 4, December 2022. doi.org/10.20508/ijrer.v12i4.13670.g8583..
- S.N. Tackie, B.K. Kurehwatira "Switched Inductor Capacitor Based DC-AC Converter for PV Applications", International Journal on "Technical and Physical Problems of Engineering" (IJTPE) Issue 50, Volume 14, Number 1, pp. 238-246, March 2022.
- S. Biricik, S.N. Tackie, O.C. Ozerdem, "Voltage Sag and Swell Mitigation Using Hysteresis Band Controlled Three-phase Twelve-switch Converter based DVR", International Journal on "Technical and Physical Problems of Engineering" (IJTPE) Issue 46, Volume 13, Number 4, December 2021 0-IJTPE-Issue49-Vol13-No4-Dec2021.pdf.

- Tackie, S.N.; Babaei, E. Modified Topology for Three-Phase Multilevel Inverters Based on a Developed H-Bridge Inverter. *Electronics* 2020, 9, 1848. doi.org/10.3390/electronics9111848.

## **7.2. Articles Published in Other International Peer-Reviewed Journals**

- Tackie, S.N.; Ozerdem, O.C.; Mohammed, S.T.; Hesri, A.S.A. Cascaded Three-Phase Multilevel Inverter with Minimal Components for Power System Applications. *Preprints* 2023, 2023121335. <https://doi.org/10.20944/preprints202312.1335.v1>
- Oyebade K. Oyedotun, Sam Nii Tackie, Ebenezer O. Olaniyi, Adnan Khashman, "Data Mining of Students' Performance: Turkish Students as a Case Study" *International Journal of Intelligent Systems and Applications(IJISA)*, IJISA Vol. 7, No. 9, August 2015.

## **7.3. Papers Presented at International Scientific Conferences and Published in Conference Proceedings**

- K. Dimililer, D. Kayali and S. N. Tackie, "Power Demand Prediction of North Cyprus using Machine Learning Regressor Models," 2023 Innovations in Intelligent Systems and Applications Conference (ASYU), Sivas, Turkiye, 2023, pp. 1-5, doi: 10.1109/ASYU58738.2023.10296786.
- S. Biricik, S.N. Tackie, O.C. Ozerdem, "Three-phase DVR Employing Twelve-switch Voltage Source Converter Using Hysteresis Band Controller", In Proceedings of 17th International Conference on Technical and Physical Problems of Engineering (ICTPE-2021) Istanbul Rumeli University, 18-19 October 2021, Istanbul, Turkey.
- Ozgur Cemal Ozerdem, Samuel Nii Tackie, Samet Biricik, "Performance Evaluation of Serhatkoy PV (1.2MW) Power Plant", In International Conference on Electrical and Electronics Engineering, ELECO 2015" Bursa, Turkey. Published by IEEE.
- S.N. Tackie, "AC/DC and Hybrid Microgrid Control Techniques: A Review", In Proceedings of 18th International Conference on Technical and Physical Problems of Engineering (ICTPE-2022) Istanbul Rumeli University, 30<sup>th</sup> October 2022, Istanbul, Turkey.
- Lida EBRAHIMI VAFAEI, Samuel Nii TACKIE, Serah BENSTEAD, McDominic Chimaobi EZE, "Performance and Analysis of Thermal Energy on Solar Reflector Cooker -Application of an

Alternative Source of Energy in Cyprus”, The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), 2022, Vol. 21, pp. 396-403.

#### 7.4. National/international Books or Book Chapters

- Tackie, S.N, Dimililer, K. Turjman, F. A. (2020). Wireless Sensor Devices in Medical Application: An Overview. In F. A. Turjman (Ed.). Wireless medical sensor for IoT-based eHealth. IET Digital Library. doi:10.1049/PBHE026E, e-ISBN: 9781839530579.

#### 7.5. Articles Published in National Peer-Reviewed Journals

### 8. Art and Design Activities

### 9. Projects

**10. Administrative Responsibilities:** Course Advisor, Summer Practice Advisory Committee Coordinator

**11. Memberships in Scientific and Professional Organizations:** IEEE

### 12. Awards

### 13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students	
			Theoretical	Practical		
2021 - 2022	Fall	Electrical Materials	3		18	
	Fall	Power System Analysis I	3		22	
	Fall	High Voltage Techniques I	3		23	
	Fall	Electrotechnology	3		4	
	Fall	Electrical Installation II	3		4	
	Fall	Sensors And Transducers	3		3	
	Spring	Power System Protection	3		17	
	Spring	Introduction To Electrical and Electronics Eng.	1		28	
	Spring	Electromagnetic Theory	3		12	
	Spring	Measurement Technique	3		4	
	Spring	Control Circuit	3		2	
	Spring	Electrical Installation II	3		2	
Spring	Electronics I	3		4		

	Spring	Electrical Installation II	3		3	
<b>2022 - 2023</b>	Fall	High Voltage Techniques I	3		15	
	Fall	Power System Analysis I	3		16	
	Fall	Power Electronics	3		11	
	Fall	Refrigeration and Air Conditioning	3		3	
	Fall	Electrical Installation II	3		2	
	Spring	Power System Protection	3		11	
	Spring	Introduction To Electrical and Electronics Eng.	1		40	
	Spring	Electromagnetic Theory	3		11	
	Spring	Electromechanical Energy Conversion II	3		17	
	Spring	High Voltage Techniques II	3		10	