

# CURRICULUM VITAE

## Tassew Tadiwose Zewdie (Ph.D.)



### Address:

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**Date of Birth** : March 17, 1963

**Place of Birth** : Harrergie, Ethiopia.

**Nationality** : Amhara, Ethiopian.

**Sex** : Male

**Marital Status** : Married, 3 Children,(2 daughters and 1 Son).

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### EDUCATION

Educational Institutions Attended	Degrees/Diplomas Obtained	Dates
Moscow Power engineering Institute, Moscow.	PhD in "Electric Transport". "Hybrid Electric bus transit for faculty link at Bahir Dar University."	27 <sup>th</sup> June 2008
Tashkent Polytechnic institute, USSR	M.Sc. Degree in Electrical Engineering on: "Design of Tana-Beles Hydroelectric power Station". Grade of Excellent,5.	27 <sup>th</sup> Feb.1993
Bahir dar polytechnic Institute, Bahir Dar	Advanced diploma in Metal technology A.G. P.A 3.81 on scale of 4	7 <sup>th</sup> July 1983.
Harrer Comprehensive Secondary School, Hareri.	Certificate in Metal Work	7 <sup>th</sup> July 1981.

### PROFESSIONAL EXPERIENCE

No	Employer	Academic Rank	Period of employment
i.	Bahir dar University	Assistant Professor	June 27, 2008 - present
ii.	Bahir dar University	Lecturer III	Jan. 9, 2002 - Nov. 24,2004
iii.	Bahir dar University	Lecturer III	Jan. 9, 2001 - Jan. 9, 2002
iv.	Bahir dar University	Lecturer II (by new regulation)	Jan. 9, 1999 - Jan. 9, 2001
v.	Bahir dar University	Lecturer I	Jan. 9, 1996 - Jan. 9, 1999
vi.	Bahir dar Polytechnic Institute	Lecturer II	Feb. 9, 1995 - Jan. 9, 1996
vii.	" "	Lecturer III / Senior Lecturer/	July. 9, 1993 - Feb.9, 1995
viii.	" "	Technical Assistant II	Sept. 9, 1986 - Sept. 9, 1988
ix.	" "	Technical Assistant I /Instructor/	Aug. 12, 1983 - Sept. 9, 1985

## TEACHING EXPERIENCE: (Present -2015 from 1983)

No	Course taught name and Code		Academic Year
1	<ul style="list-style-type: none"><li>EEng 6061, “Transmission and Distribution Engineering” at Bahir dar &amp; Adama Universities.</li><li>EEng 6063, “High Voltage Engineering” at Bahir dar University.</li><li>EEng 6044, “Power System Operation and Control” at Bahir dar and Arba-Minch Universities.</li><li>EEng 6052, “Power System Planning and Reliability” at Bahir Dar University.</li><li>EEng 6046, “Power System Protection and Circuit Breakers” at Bahir Dar University.</li><li>Advising and Examining Graduate Regular students on their final thesis, from Adama University, Bahir Dar University, Jimma University, Arbaminch University and KTH, Royal University of Technology.</li></ul>		For Post graduate students 2009-present
2	<ul style="list-style-type: none"><li>Applied Energy Conversion, Eeng 428, EE 571. (Hydroelectric, Steam, Geothermal, Solar &amp; Wind Power including Bio mass)</li><li>“Conversion of energy sources”-Eedi 314. (Solar for therm.&amp; PV application, Wind &amp; Biogas energy)</li><li>Final degree project advising on: Sub Station &amp; distribution design, electric distribution system &amp; Renewable energies as: Solar Power &amp; Wind power, etc.</li><li>“Power System I” Eeng 323.</li><li>Advising Under Graduate Regular/Extension students on their final thesis, at BDU.</li></ul>		For Under graduate students 2009-present
3	<ul style="list-style-type: none"><li>Electrical power System I, EE404.</li><li>Electrical power System II. EE474.</li><li>Electrical Installation, EE307, EE411.</li><li>Fundamentals of electrical engineering, EE202.</li><li>Workshop Practice I, EE206.</li><li>Workshop Practice II, EE309, EE312.</li></ul>	<ul style="list-style-type: none"><li>Workshop Practice, CED300.</li><li>Industrial &amp; residential wiring, ELT 251.</li><li>Basic electricity &amp; Installation, EE401.</li><li>Refrigeration &amp; air conditioning, SPCE253</li><li>Final Diploma Projects.</li></ul>	2000-2004
4	<ul style="list-style-type: none"><li>Generation, Transmission and Distribution of Electric Power I. ET-203</li><li>Generation, Transmission and Distribution of Electric Power II. ET-207</li><li>Montage and repair electrical equipments I. ET-208.</li><li>Montage and repair electrical equipments I. ET-303.</li><li>Workshop Practice I.</li><li>Workshop Practice II.</li><li>Electrical Installation, ET-308.</li><li>Electrical Special shop, ET-309</li><li>Final Projects.</li></ul>		1993-2000
5	<ul style="list-style-type: none"><li>Principles of Metal Cutting, PMC.</li><li>Machine Tool Design, MTD.</li><li>Fits and Tolerance, F&amp;T.</li><li>Machine Shop, MS.</li><li>Arc &amp; Gas Welding Shop, WS.</li><li>Fitting Workshop, FWS.</li><li>Final Project, FP.</li></ul>		1983-1988

## ADMINISTRATION EXPERIENCE (Present -2009, 2004, 1993, 1988 and 1983)

No	Academic/Administrative posts	Dates
1	Chair holder, Power systems and Energy, School of Computing and Electrical Engg.	2012-2014
2	Member of research & publication committee (RPC) of the engineering faculty BDU.	Since February, 2009
3	Acting Dean of Engineering Faculty / member of senate of the Bahir Dar University.	April 9, 2003- July, 2004.
4	Member of Senate at Bahir Dar University.	2002/05.
5	Head of the Income generation for the faculty of engineering.	2002-2003
6	Head of the Electrical Engineering Department.	1998 – 2000.
7	Coordinating Continuing education program at Engineering Faculty.	Feb.29, 95– Sep.13, 96
8	Head of the Metal Technology Department.	1985-1987.

## COMMITTEE AND OTHER STUDY GROUPS

No	Committee/ Study group Assignments	Dates
1	Chair holder, “Wind and Mini hydropower” energy and research centre, BDU	11 <sup>st</sup> Feb.2015
2	Academic program committee member in establishing a sustainable energy centre at BDU	2010-present
3	Committee member of 50 <sup>th</sup> anniversary of the Bahir Dar Polytechnic Institute	Sep.2013
4	Project Coordinator, Demand Side Management for Climate Change Adaption for the Ethiopian Power Sector, executed by the Ethiopian Society of Electrical Engineers (ESEE) and EEPCo.	March, 2012
5	Committee member on Initial assessment of the prospect for an ABET accreditation of the Electrical Engineering program at Bahir Dar University (BDU)	November 2009
7	Project coordinator, A 15 K Seed money grand, An implementation of RE technology in rural localities, which was funded by the USA Embassy in Addis Ababa	Dec. 2012
8	Project coordinator, Joint research partnership of the BDU and UDC on renewable energy.	2002-present
9	Member of Project committee of the BDU and assessing of the project initiation and implementation of South Universities.	Jan-Feb,2002
10	Upgrading the Department of electrical engineering for degree program.	1997-2002
11	Establishing of audio visual club for the faculty of engineering.	Feb, 2001.
12	A committee member for strategic plan of the BDU.	April, 2001.
13	Member of Exhibition committee for “Timihirt Bete”, on National level, Addis Ababa.	Agust,2001
14	A member of inauguration committee of the Bahir Dar University.	1998-2000

## OTHER PROFESSIONAL ACTIVITIES/WORKSHOP CONDUCTED OR ORGANIZED.

No	Professional Activities Conducted	Dates
1	HERQA Institutional Quality Audit team member, evaluation of the Wellita Sodo University and Gambi Collage of Medical Science, Bahir Dar.	March 25-28, 2014 and Dec. 30/2014-Jan. 2, 2015
2	Coordinator, Joint Project on Curricula Development for Efficient Lighting and Renewable Energy Technology with collaboration with Aalto University, Finland and Katmandu University, Nepal.	April 2013 - March 2015
3	Presentation on the Performance of the Sunlight Grid-Tied PV system at IOT. Amhara National Regional state, 3 <sup>rd</sup> Regional Renewable Energy Stakeholders Network (RRESN) workshop	August 14-15, 2012 at Pypyrus Hotel
4	Coordination, dissemination of PV system operation and providing data for researchers as per their requirement.	October, 2010-present
5	Presentation and dissemination on Grid connected PV system at IOT. The 5 <sup>th</sup> Scientific Conference on Electrical Engineering, ESEE 2011-Bahir Dar, Ethiopia	20-21 August 2011
6	Preparation, installation and controlling a 10 kW Solar PV installation with modern monitoring devices at IOT, BDU.	June - Oct. 2010-present
7	Workshop on “Learn 4 work” organized by Development Expertise Center, Addis Ababa.	12 <sup>th</sup> March, 2010.
8	Workshop on “Solar thermal application” organized by Further education training centre, Adama University.	Jan 4- 8, 2010.
9	Workshop on “learning processes-Didactics” organized by IT+3 & ecbp, Adama	May 18-28, 2009
10	Certificate, committee membership of organizing for millennium holidays at Ethiopian Embassy. Moscow.	2007 - 2008
11	Preparing and producing bylaws, rules and disciplinary breaches with measures for faculty and University, Bahir dar.	March, 2004
12	Organizing a periodical/yearly educational visit for senior students to Tiss Abbay I,II Power Plants.	1993 – 2004

13	Workshop on “Managing opportunities and the way forward”, Bahir dar,	Agust.25-29, 2003
14	Certificate on Managing and Administering Higher Education Challenges Opportunities and the Way Forward, organized by British council. Addis Ababa.	25–29 August 2003.
15	Certificate of Professional Competency in electrical installation CLASS “A”, By Ethiopian Electric Agency.	24 <sup>th</sup> February, 2003
16	Educational visit and research activities at Strathclyde University, Glasgow, Scotland.	15 <sup>th</sup> Nov,2001-15 <sup>th</sup> of Feb.2002
17	To give technical analyses to new purchased equipment’s for all higher education institutions, Addis Ababa,	Feb, 25-29, 2002.
18	Approval of Ethiopian Science and Technology Commission to the research Proposal" Utilization of solar energy at Bahir Dar."	August ,2001.
19	Conducting an educational visit for senior students to Fincha Power Plants	Jan,2001
20	Seminar on “National sustainable energy”, Bahir Dar Engineering Faculty,	19 <sup>th</sup> Nov, 2000
21	Paper presented on harvesting solar power for domestic proposes, Bahir Dar University,	Feb,2000
22	Certificate in Printed Circuit Board Design and Fabrication, JUKAT, Kenya, under the Regional Cooperation Agency of JICA.	3 <sup>rd</sup> Feb. to 4 <sup>th</sup> March 1997.
23	Certificate in training Seminar on Energy Utilization and Conservation, Bahir Dar University.	1995
24	Provisional Certificate, , Workshop on "Practical issues in institutional Management " Sponsored by British Council Link Program, Bahir Dar.	12 <sup>th</sup> Dec, 1994
25	Organizing a periodical/yearly educational visit for senior students to Tiss Abbay I,II Power Plants.	1985 – 1988

## PUBLICATIONS

№	Author(s)	Title of Publication(s)	Name of Journal	Vol. (No.) pages	Year of Publication
1	Dr. Samuel L Dr. Tassew T.	Mobile Solar Power Delivery System for Rural Applications <a href="http://www.africapvsec.info/proceedings">http://www.africapvsec.info/proceedings</a>	Africa PVSEC, 1 <sup>st</sup> Africa Photovoltaic Solar Energy Conference and Exhibition, Durban, South Africa	Paper and Poster	March 28, 2014
2	Dr. Tassew T. Dr. Samuel L.	Design and Implementation of Ambulatory PV Power Water Pumping System for Drip Irrigation in Amhara region UDC-BDU Partnership: <a href="http://members.photovoltatic-conference.com/AuthorConfirmation/?aid=d52f94ad8c811e738e37f1c8cd9c865653eb">http://members.photovoltatic-conference.com/AuthorConfirmation/?aid=d52f94ad8c811e738e37f1c8cd9c865653eb</a>	28 <sup>th</sup> EUPVSEC, Paris, FRANCE	5 pages paper	October 2, 2013
3	Dr. Tassew T. Dr. Samuel L. Mr. TewodrosG.	Renewable Energy Project at Bahr Dar University	28 <sup>th</sup> EUPVSEC, Paris, FRANCE	poster	October 2, 2013
4	Tassew Tadiwose Zewdie, M.A. Slepsov.	Electric bus for passengers of Bahir dar university Campus. Bahir dar (Ethiopia).	“Vestnic” MPEI ISSN:1993-6982	№5 p.63-67	MPEI,2007 Moscow
5	M.A. Slepsov, Tassew.T.Z	Hybrid electrical mechanism for electric traction and drives.	“Novekc” ED 2007	ED-2007 p. 540-541	September,2007 S. Petersburg
6	Tassew Tadiwose Zewdie	Analysis of the possibility of using electric driven vehicle for campus transit at Bair dar university. (Ethiopia).	“Vestnic” MPEI	T- 2, p.201	March, 2006. Moscow

7	Tassew.T.Z	Determination of power consumption for electric vehicle to be assigned for short and fixed transit between north and south campuses of the University. Bahirdar-Ethiopia.	“Sputnic” Natural and technical science ISSN:1684-2626	№ 5, p.235-241	March,2006 Moscow
8	Tassew.T.Z	Dissertation auto referral, Electric traction for Transportation purposes (Trolley bus) at 2.6 KM track linking the main (South) and North campus of the BDU. <a href="http://www.mpei.ru/lang/rus/universitylife/infoacadcncl/candidatelist/june2008.asp">http://www.mpei.ru/lang/rus/universitylife/infoacadcncl/candidatelist/june2008.asp</a>			

### **PARTICIPATION IN COMMUNITY SERVICES AT LARGE.**

№	Community Service	Dates
1	Design and Implementation of renewable energy- Trackable Solar PV Powered water delivery system for drip irrigation for 20 farmers and school students, Wereta, Fogera	Sep. 2015-present
2	Designing of Solar PV Powered water delivery system for irrigation of Apple plantation in two Kebeles of Lay Gayint area, South Gonder zone	Feb. 2015-present
3	Design and Implementation of renewable energy-Solar PV Powered water delivery system for 150 HH of our rural population, Kolella, Merawi. Where manual tracking system design undergoing.	21 Sept,2013 by 2015
4	A 4 kW Solar-PV System design for Irrigation use at Borkena River- Wollo, with collaboration of AMELD(ORDA)	2010-2011
5	Commissioning of Computers which have been purchased from “Rabeco” for technical and vocational training centers in Region 3.	2002
6	Consultancy works for Top land mineral water enterprise at Kosso Ber/Awi Zone/.	2002.
7	Designing and constructing of permanent electronic display stand for ADA, Bahir dar.	2001
8	Designing and estimating of sound network for military camp at Birr-Sheleko/Fnote Selam/.	Nov 26,1999
9	Technical consultancy for the people around the Bahir Dar area to produce spare parts.	1999

### **RESEARCH EXPERIENCE/INTEREST (September, 2000 - present)**

1. My current research topics are:

- Solar PV Electric power system for lighting and other applications
- Tracking of PV Panel with manual, single, and double axis to maximize yield energy.
- Mini Hydro & Wind power applications
- Efficient lighting and renewable energy

2. My research topics at present and in time to come are:

- **Energy Conversion**

1. Conventional/Non renewable power generation
2. Non- Conventional/ renewable power generation

- **Electrical Engineering**

1. Mini Solar, Wind and Hydroelectric power systems
2. Ambulatory Solar PV driven water delivery and drip irrigation systems
3. Electrical Installation: Indoor and Out door
4. Electrical power system and its quality
5. Industrial Electricity and its power regulation
6. Electric traction system for public transportation
7. Homemade facilities ...

## HOBBY

- Applied research activities on Solar, Hydropower, and Wind Energy Conversions for domestic and public use;
- Documentation in data, pictures and videos;
- Graphics and design in mechanical and electrical applications;
- The modification and maintenance of electrical & mechanical details, etc.

## LANGUAGE

No.	List of languages	Speaking			Reading			Writing		
		Good	Fair	Poor	Good	Fair	Poor	Good	Fair	Poor
1	Amharic	x			x			x		
2	Oromeffa		x		x				x	
3	English	x			x			x		
4	Russian	x			x			x		

## LICENSES

- Certificate of 1<sup>st</sup> Class of competency for electrical installation from Ethiopian Electric agency, 24<sup>th</sup> February, 2003, Addis Ababa.(which leads to establishment of PLC.);
- License, Certificate For Design Professionals (Electrical Engineer)from Ministry of Works & Urban Development Construction Works Coordinating Bureau, 27 July 2011 Addis Ababa.;
- 2<sup>nd</sup> degree car driving, 3 September 1997, Bahir Dar.

## CERTIFICATION:

I the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes my qualifications, my experience, and me. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Dr. Tassew Tadiwose Zewdie

[Signature of staff member or authorized representative of the staff]



Date: 23<sup>rd</sup> February 2015

[dd/mm/yy]

Full name of authorized representative: \_\_\_\_\_



## REFERENCES

- i. Dr. Bayle Damte, President of BahirDar University. Bahir Dar, Ethiopia. P.O. Box. 79, Tel: 251 58 2202236/5943, Fax: +251(058)2202239, Email: [bdtc@ethionet.et](mailto:bdtc@ethionet.et). [www.bdu.edu.et](http://www.bdu.edu.et);
- ii. Dr. Nigus Gabiye, Acting Scientific director. Bahir Dar Institute of Technology, Bahir Dar University, Ethiopia. Tel: +251(058)22000113, Fax: +251(058)2202027, P.O.Box 26, Mob: +251930111744. Email: [nigabye@yahoo.com](mailto:nigabye@yahoo.com) . [www.iotbdu.edu.et](http://www.iotbdu.edu.et)
- iii. Dr. Samuel Lakeou, Professor, Chair and Acting Assistant Dean, University of the District of Columbia Department of Electrical and Computer Engineering, Building 42, Room 109-F, 4200 Connecticut Avenue, NW, Washington, DC 20008, Tel: (202) 274-5834 Fax: (202) 274-6311, Email: [slakeou@udc.edu](mailto:slakeou@udc.edu)
- iv. Dr. Abera Kechi, Former Dean, Bahir Dar Institute of Technology, Bahir Dar University, Ethiopia. Tel: +251(058)22000113, Fax: +251(058)2202027, P.O.Box 26, Mob: +251918712317.
- v. Professor Gerald Higelin, Former Scientific director. Institute of Technology, Bahir Dar University, Ethiopia. Stuttgart University in Germany. Tel: +251(058)22000113, Fax: +251(058)2202027, P.O.Box 26, Email: [hig@hs-furtwangen.de](mailto:hig@hs-furtwangen.de) . [www.iotbdu.edu.et](http://www.iotbdu.edu.et)
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- vii. Dr. Yeshe Mebrat . Former President of BahirDar University. Bahir Dar, Ethiopia. P.O. Box. 79, Tel: 251 58 2202236/5943, Fax: +251(058)2202239, Email: [bdtc@ethionet.et](mailto:bdtc@ethionet.et).
- viii. Dr.Tseaye Jemberu. Former President of BahirDar University. Bahir Dar, Ethiopia. P.O. Box. 79, Tel: 251 58 2202236/5943, Fax: +251(058)2202239, Email: [tsehaij@yahoo.com](mailto:tsehaij@yahoo.com). [bdtc@ethionet.et](mailto:bdtc@ethionet.et).
- ix. Dr. Mesfin Belachew, Deputy Director, Ethiopian ICT Development Agency, Addis Ababa, Ethiopia. Tel: +251(0)115 500191 Fax: +251(0)115 515894, P.O.Box 1028, Email: [mesfinbelachew@gmail.com](mailto:mesfinbelachew@gmail.com).
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- xii. Dr. Michail Alexandrovich Sleptsov,/Lecturer & scientific Adviser/. Faculty of “Electric Transport”. Tel: +7(495)7071824, E-mail: [SleptsovMA@mpei.ru](mailto:SleptsovMA@mpei.ru). Moscow, Russia. Moscow Power Engineering Institute (Technical University). 14, Krasnokazarmennaya,111250, Tel :+7(495) 362-75-60, Fax: +7(495) 362-89-38.Homepage: <http://www.mpei.ru>, E-mail: [universe@mpei.ac.ru](mailto:universe@mpei.ac.ru) , Moscow, Russia.