

## CURRICULUM VITAE



### PERSONAL INFORMATION

Name **Taye, Biniyam Zemene**

Address **Poly Peda Street, Bahir Dar, Ethiopia**

Telephone **+251-921-252552**

E-mail [zemenebiniyam@gmail.com](mailto:zemenebiniyam@gmail.com) / [biniyam.zemene@bdu.edu.et](mailto:biniyam.zemene@bdu.edu.et)

Nationality Ethiopian

Date of birth MAY 01, 1988 G.C

### WORK EXPERIENCE

Dates From December 02, 2021 till now

Name and address of employer Bahir Dar University, P.O.BOX: 26, Bahir Dar, Ethiopia

Type of business or sector Academic Institution

Occupation or position held Assistant professor

Main activities and responsibilities Giving lectures for undergraduate students, doing different researches, Assisting or guiding students in the laboratory, advising students in different project works and preparing course materials.

### WORK EXPERIENCE

Dates From July 08, 2018 to December 01, 2021

Name and address of employer Bahir Dar University, P.O.BOX: 26, Bahir Dar, Ethiopia

Type of business or sector Academic Institution

Occupation or position held Lecturer

Main activities and responsibilities Giving lectures for undergraduate students, doing different researches, Assisting or guiding students in the laboratory, advising students in different project works and preparing course materials.

### WORK EXPERIENCE

Dates From Mar 10, 2021 till now

Name and address of employer Bahir Dar University, P.O.BOX: 26, Bahir Dar, Ethiopia

Type of business or sector Academic Institution

Occupation or position held Director of Bahir Dar Energy Center

Main activities and responsibilities Managing the graduate (masters and PhD) program in Bahir Dar Energy Center. Revising both curriculums, assign the instructors for each course in the center and controlling the teaching learning processes. Writing grant projects and managing projects that were installed and installing by the center.

### WORK EXPERIENCE

|                                      |   |
|--------------------------------------|---|
| Dates                                | From Mar 23, 2020 to Mar 09, 2021   |
| Name and address of employer         | Bahir Dar University, P.O.BOX: 26, Bahir Dar, Ethiopia  |
| Type of business or sector           | Academic Institution  |
| Occupation or position held          | Chair head of Energy and Electrical Power Engineering   |
| Main activities and responsibilities | Managing the undergraduate and graduate (masters) programs in Electrical Power Engineering. Revising both curriculums, assign the instructors for each course in our department and controlling the teaching learning processes of the two programs. Preparing the laboratory equipment's specification for our department and order the institute to purchase them and make sure that they are available in the laboratory room within the specific and required time. |

**WORK EXPERIENCE**

|                                      |   |
|--------------------------------------|---|
| Dates                                | From September 14, 2009 to July 07, 2018  |
| Name and address of employer         | Mekelle University, P.O.BOX: 231, Mekelle, Ethiopia fax: +251-344-409304  |
| Type of business or sector           | Academic Institution  |
| Occupation or position held          | <b>Lecturer</b>   |
| Main activities and responsibilities | Giving lectures for undergraduate students, doing different researches, Assisting or guiding students in the laboratory, advising students in different project works and preparing course materials. |

**WORK EXPERIENCE**

|                                      |   |
|--------------------------------------|---|
| Dates                                | From May 10, 2016 to July 02, 2018  |
| Name and address of employer         | Mekelle University, P.O.BOX: 231, Mekelle, Ethiopia fax: +251-344-409304  |
| Type of business or sector           | Academic Institution  |
| Occupation or position held          | Chair head of Electrical Power Engineering  |
| Main activities and responsibilities | Managing the undergraduate and graduate (masters) programs in Electrical Power Engineering. Revising both curriculums, assign the instructors for each course in our department and controlling the teaching learning processes of the two programs. Preparing the laboratory equipment's specification for our department and order the institute to purchase them and make sure that they are available in the laboratory room within the specific and required time. |

**WORK EXPERIENCE**

|                                      |   |
|--------------------------------------|---|
| Main activities and responsibilities | Solar power inspection, supervision and consultancy for Ministry of Health (MOE-solar supervision)<br>Provide solar energy inspection, consultancy and supervision service for health centers and health posts that are installed by Ministry of health in all over Ethiopia. |
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**WORK EXPERIENCE**

|                                      |  |
|--------------------------------------|--|
| Main activities and responsibilities | Industry Park sight feasibility study and design for Raya agro processing industry park<br>Site selection, feasibility study, design of electrical installation for all shades, determination of the required power consumption, selection of substation sight for the industry. |
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**WORK EXPERIENCE**

Main activities and responsibilities

Installation design for Bahir Dar University Wereta project  
Installation design of the laboratory buildings and for the guest house.

**EDUCATION AND TRAINING**

Dates

From September, 2012 to November, 2015

Name and type of organization providing education and training

Bahir Dar University, Governmental Institute, Bahir Dar, Ethiopia

Title of qualification awarded

M.Sc. in Electrical Power Systems Engineering

Level in national or international classification

Higher Education

**EDUCATION AND TRAINING**

Dates

From October, 20, 2006 to July 18, 2009

Name and type of organization providing education and training

Adama University, Governmental Institute, Adama, Ethiopia

Title of qualification awarded

B.Ed. in Electrical/ Electronic Technology

Level in national or international classification

Higher Education

**EDUCATION AND TRAINING**

Dates

From November 30, 2009 to December 04, 2009

Name and type of organization providing education and training

MIT (Mekelle Institute of Technology), Governmental Institute, Mekelle, Ethiopia

Principal subjects/occupational skills covered

Programing of PLC "Step-7 Basic"

Title of qualification awarded

Certificate in Programmable logic controller

Level in national or international classification

Academic Institution

**EDUCATION AND TRAINING**

Dates

From 22 November to 10 December 2021

Name and type of organization providing education and training

Jointly organized by the OpTIMUS Community and convened and hosted by the UN Economic Commission for Africa and the University of Mauritius.

Principal subjects/occupational skills covered

Energy Modelling Platform for Africa (EMP-A) OnSSET

Dates

From 14 - 30 June 2021

Name and type of organization providing education and training

Jointly organized by Abdus Salam International Centre for Theoretical Physics (ICTP) and Climate Compatible Growth (CCG)

Principal subjects/occupational skills covered

Modelling Tools for Sustainable Development in Energy Modelling and Power System Flexibility, OSeMOSYS

Principal subjects/occupational skills covered  
Title of qualification awarded  
Level in national or international classification

PLC-training automation “Step-7 Advanced”

Certificate in Programmable logic controller

Academic Institution

## PUBLICATIONS JOURNAL

1. **B. Z. Taye**, A. H. Nebey, and T. G. Workineh, “Design of floating solar PV system for typical household on Debre Mariam Island,” *Cogent Eng.*, vol. 7, no. 1, Jan. 2020, doi: 10.1080/23311916.2020.1829275.
2. **B. Z. Taye**, T. G. Workineh, A. H. Nebey, and H. A. Kefale, “Rural electrification planning using Geographic Information System (GIS),” *Cogent Eng.*, vol. 7, no. 1, Jan. 2020, doi: 10.1080/23311916.2020.1836730.
3. T. G. Workineh, **B. Z. Taye**, A. H. Nebey, and E. M. Getie, “PI-like fuzzy based synchronous SEPIC converter control for PV-fed small scale irrigation DC pump,” <http://www.editorialmanager.com/cogenteng>, vol. 8, no. 1, 2021, doi: 10.1080/23311916.2021.1893590.
4. A. H. Nebey, **B. Z. Taye**, and T. G. Workineh, “GIS-Based Irrigation Dams Potential Assessment of Floating Solar PV System,” *J. Energy*, vol. 2020, pp. 1–10, May 2020, doi: 10.1155/2020/1268493.
5. A. H. Nebey, **B. Z. Taye**, and T. G. Workineh, “Site Suitability Analysis of Solar PV Power Generation in South Gondar, Amhara Region,” *J. Energy*, vol. 2020, pp. 1–15, May 2020, doi: 10.1155/2020/3519257.

## CONFERENCE

1. T. G. Workineh, **B. Z. Taye**, and A. H. Nebey, “Design and performance Analysis of 125MW Floating photovoltaic power plant in Ethiopia: Metema Vs Lake Tana,” *ICAST 2021: - 9th EAI International Conference on Advances of Science and Technology*, pp. 184-195, Jan. 2022, [https://doi.org/10.1007/978-3-030-93709-6\\_13](https://doi.org/10.1007/978-3-030-93709-6_13)

## BOOK CHAPTER

1. A.K. Worku, D.W. Ayele, N.G. Habtu, B.T. Admasu, G.A. Melas, **B.Z. Taye** and T.A. Yemata, “Energy Storage Technologies; Recent Advances, Challenges, and Prospectives,” Springer, DOI: 10.1007/978-981-19-0979-5

## PROJECT

1. **PI** of a research project on Rural Electrification Planning Using Geographic Information System - the case of West Gojjam and North Gondar Zone. Funded by Bahir Dar Institute of Technology-Bahir Dar University, 2020
2. **Co-PI** of a research project on Improving Power Quality Problems

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|---|--|
|   | <p>of Industries: A Case Study of Dashen Brewery Factory. Funded by Bahir Dar Institute of Technology-Bahir Dar University, 2020</p> <p>3. <b>Co-PI</b> of a research project on 1.Integrated irrigation, water supply and electrification development. Funded by Bahir Dar University, 2020</p>   |
| <p><b>COMMUNITY ENGAGEMENT</b></p>                                | <ol style="list-style-type: none"> <li>1. Integrated irrigation, water supply and electrification development, from September 2021 – March 2022</li> <li>2. Design and development of solar based DC/AC power supply to light and charge electronic devices, from November 2021 – March 2022</li> <li>3. Solar PV system and Electrical installation design training, on February 2020.</li> <li>4. Maintenance of burned automatic transfer switch (ATS) coil, on February 2020.</li> <li>5. Automatic soap dispenser for poly staff lounge” on February 2020</li> <li>6. Contribution made to the commercial bank of Ethiopian for fighting COVID-19 on September 09/08/2020.</li> <li>7. Electrical installation design for Gimja Bet and Debre work elementary school building for FGCF project office from December 17-31/2019</li> </ol> |
| <p><b>TECHNOLOGY TRANSFER</b></p>                                 | <ol style="list-style-type: none"> <li>1. Design and Manufacturing of Low-cost Solar Panels for Energy Deprived Rural Areas of Ethiopia (Co-PI), 2020 Bahir Dar University UIL office.</li> </ol>  |
| <p><b>PERSONAL SKILLS AND COMPETENCES</b><br/>OTHER LANGUAGES</p> | <p>Rewind deferent electrical machines, design installation diagram for different types of homes, installing solar panels and testing them.</p>  |
| <p>Reading skills<br/>Writing skills<br/>Verbal skills</p>        | <p><b>Amharic, Mother’s tongue</b><br/><b>ENGLISH</b><br/>Excellent<br/>Excellent<br/>Excellent</p>  |
| <p><b>SOCIAL SKILLS AND COMPETENCES</b></p>                       | <p>Excellent communication skill, very good interaction with peoples and I go to different education centers and I gather different life style from the beginning until now including Adama University, Bahir Dar University and Mekelle University, great leadership skill.</p>   |
| <p><b>TECHNICAL SKILLS AND COMPETENCES</b></p>                    | <p>Maintaining different electrical machines and electrical appliances, designing installation for residential and installing machines, rewinding electrical machines, writing programs using different programing language etc.</p>   |
| <p><b>COMPUTER SKILLS AND COMPETENCES</b></p>                     | <p>Excellent command of Microsoft office tools, MATLAB, Python, ETAP, POWER WORLD, DIGSILENT, Circuit maker, Machine learning, Workbench, Data structure and algorithm, programing (visual C++, object-oriented programing, visual basic programing)</p>   |
| <p><b>ARTISTIC SKILLS AND COMPETENCES</b></p>                     | <p>Watching football, searching and collecting updated programing languages from internet and reading fictions.</p>  |

DRIVING LICENSE(S)  
ADDITIONAL  
INFORMATION

I have a driving license

1. Dr. Ing. Getachew Biru, Associate Professor, E-mail:  
[gbiru@yahoo.co.uk](mailto:gbiru@yahoo.co.uk)
2. Dr. Mengesha Mamo, Associate Professor, E-mail:  
[mmamo2006@gmail.com](mailto:mmamo2006@gmail.com)
3. Dr. Getnet Tadesse, Assistant Professor, E-mail:  
[belachewbg@gmail.com](mailto:belachewbg@gmail.com)
4. Dr. Getachew Bekele, Associate Professor, Email:  
[getachew.bekele@aait.edu.et](mailto:getachew.bekele@aait.edu.et)
5. Dr. Belachew Bantyriga, Assistant Professor, Email:  
[belachewbg@gmail.com](mailto:belachewbg@gmail.com)