



Yosef Berhan Jember

Nationality: Ethiopian **Date of birth:** 28 Jun 1993 **Gender:** Male

Phone number: (+251) 918456526 **Email address:** yosef.berhan@aait.edu.et

Email address: yosefberhan4@gmail.com

Work: HaileSELLASSIE Street, Poly Campus, 6000 BahirDar (Ethiopia)

WORK EXPERIENCE

Researcher and Solar Energy Research Group Head

Bahir Dar University - Bahir Dar Energy Center [20 Mar 2023 – Current]

Chair holder of Power and Energy Engineering/ Department head

Bahir Dar University - Bahir Dar Institute of Technology [19 Mar 2021 – 19 Apr 2023]

Lecturer

Bahir Dar University - Faculty of Electrical and Computer Engineering [30 Oct 2019 – Current]

City: Bahir Dar

Country: Ethiopia

Electrical engineer

BiT-Trading PLC - Bahir Dar University [9 Aug 2021 – 18 Dec 2021]

City: Bahir Dar

Country: Ethiopia

Assistant lecturer

Bahir Dar University - Faculty of Electrical and Computer Engineering [12 Oct 2016 – 5 Sep 2017]

City: Bahir Dar

Country: Ethiopia

EDUCATION AND TRAINING

Higher Diploma Program in Teaching

Bahir Dar University [5 Nov 2019 – 4 Jul 2021]

MSc in Railway Engineering (Traction and Train Control)

Addis Ababa University [7 Sep 2017 – 7 Sep 2019]

Final grade: CGPA: 3.89/4.00

Thesis: Title: Study of Train Overloading and its Impact on the Traction Motors: Case of AALRT N-S Line, Grade:

Very Good, Supervisor: Dr.-ing Getachew Biru Worku

BSc in Electrical and Computer Engineering (Power and Control)

Bahir Dar University [7 Sep 2010 – 24 Jun 2016]

Final grade: CGPA: 3.6/4.00

Thesis: BSc Project Title: Design and Implementation of Smart Protection for Three Phase AC machine

(prototyped), Grade: A

LANGUAGE SKILLS

Mother tongue(s): **Amharic**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

DIGITAL SKILLS

Microsoft Office / Social Media / Programming languages known : Python, LaTeX, OCaml / Linguaggi di programmazione: C, Matlab / Simulacin de circuitos electricos en LTSPICE / Use Powerworld and Digsilent Powerfactory Simulators / ETAP software / LabVIEW szimulációs szoftver ismerete

PUBLICATIONS

Potential Assessment and Performance Evaluation of a Floating Solar Photovoltaic on the Great Ethiopian Renaissance Dam.

(Getie, Elias Mandefro, and Yosef Berhan Jember. "Potential Assessment and Performance Evaluation of a Floating Solar Photovoltaic on the Great Ethiopian Renaissance Dam." *International Journal of Photoenergy* 2022 (2022). <https://doi.org/10.1155/2022/6964984>)

Wind Energy Resource Potential Evaluation based on Statistical Distribution Models at Four Selected Locations in Amhara Region, Ethiopia.

(Jember, Yosef Berhan, et al. "Wind Energy Resource Potential Evaluation based on Statistical Distribution Models at Four Selected Locations in Amhara Region, Ethiopia." *International Journal of Engineering Research in Africa* 63 (2023): 137-158. <https://doi.org/10.4028/p-bt68b3>)

A Reviewer in Scientific Journals

An external reviewer in Scientific Journals which are indexed by Scopus and other relevant metrics. One is "EAI Endorsed Transactions on Energy Web", the publisher is European Alliance for Innovation (EAI). The other is "International Journal of Engineering Research in Africa", whose publisher is known as "Trans Tech Publications Ltd".

CONFERENCES AND SEMINARS

Conference Paper: Application of FACTS Devices for Transient Stability Enhancement in the Adama II Grid-Connected Wind Farm.

(Berhan, Yosef, TG Workineh, Tefera T Yitayew, and Meresa Dinkayow.", Application of FACTS Devices for Transient Stability Enhancement in the Adama II Grid-Connected Wind Farm." *10 th EAI International Conference on Advancements of Science and Technology- ICAST 2022: November 4-6, 2022 Bahir Dar, Ethiopia, Springer*). Already presented, but not yet published online.

Certified for participation in a conference: Indian Institute of Space Science and Technology, Faculty Development Program on Control and Automation

Faculty Development Program on Control and Automation, organized by department of Avionics, during 14-17, December 2021.

Certified for participation in a conference: SRM Institute of Science and Technology (a University in India), Practices on Deep Learning Models, Simulation Tools and Data Visualization Techniques in Cloud Computing

A national level one week faculty development program on "Practices on Deep Learning Models, Simulation Tools and Data Visualization Techniques in Cloud Computing", conducted from 14th to 19th February 2022, organized by the Department of Networking and Communications, School of Computing, SRM Institute of Science and Technology.

Seminar Title: Electromechanical Technologies and Steam Power Plant Systems in Tana Beles Sugar Project I

Certified for seminar presentation, Summer industry externship program of instructors, by: Yosef Berhan and Alebachew Kassie, November 2020.

Poster Title: Recent Research Trends in Power System Automation and Smart Grid

Certified for poster presentation, "Recent Research Trends in Power System Automation and Smart Grid" organized by Faculty of Electrical and Computer Engineering, on 04 December 2020, Bahir-Dar University.

Poster Title: Smart Protection for three phase Motors

Certified for poster presentation as, "Smart Protection for three phase Motors", on the 4th International Conference on Advancement of Science and Technology (ICAST- 2016) held at Bahir Dar University, June 2016.

Poster Title: Design and Prototyping of a Low-Cost Portable Mechanical-Ventilator with Rack and Pinion Motor Drive

Certified for poster presentation as, "Design and Prototyping of a Low-Cost Portable Mechanical-Ventilator with Rack and Pinion Motor Drive", on the 9th EAI International Conference on Advancements of Science and Technology- ICAST 2021: August 27-29 2021, Bahir Dar, Ethiopia.

Poster Title: COVID-19 response research projects performed by Faculty of Electrical and Computer Engineering

Certified for poster presentation, COVID-19 response research projects performed by Faculty of Electrical and Computer Engineering, in a national level exhibition organized by Bahir Dar University, on 10 February 2020 at Bahir-Dar University.

PROJECTS

A principal investigator, and co-investigator on the following completed projects under a fund from the University and other local institutions;

Design Adoption and Implementation of Small Quadcopter Drone, Bahir Dar University, Dec 2023

Design and production of automatic soap dispenser, Bahir Dar University, June 2020

Design and production of disinfection tunnel for Tibebe-Gion Referral Hospital, Bahir Dar University Hospital, August 2020

Design and implementation of automatic water tap for commercial bank of Ethiopia, Commercial Bank of Ethiopia, July 2020

Design and production of pedal switch water tap, Bahir Dar University, August 2020

TRAININGS AND AWARDS

Training on: Smart Grid Laboratory Equipment Operation

Participated in a training course on Smart Grid Laboratory by De Lorenzo SPA- Italy and Synergy PLC at Bahir Dar University, January 2017. (Certified)

Best Final Year BSc Project Award

Certified as "Bahir Dar Institute of Technology 2016 Best Final Year BSc Project Award" with the project title "Design and Implementation of Smart Protection for Three Phase Motors, June 2016.

Career Counseling Training

Certified as a Career Counselor, Virtual training on Career Counseling, organized by Ethiopian Ministry of Science and Higher Education and GIZ, August 2020.

Training of Trainers on Employability Skills

Certified as a Employability Skills Trainer, Virtual Training, Training of Trainers on Employability Skills, organized by Ethiopian Ministry of Science and Higher Education and GIZ, September 2020.

PROFESSIONAL AND PERSONAL SKILLS

Professional Skills

Engineering project management, Independent researching, Industrial Electrical Installation Design, Building electrical installation design, Learning Management Systems, Curriculum Development, Class management, PowerPoint, Supporting materials, Faculty collaboration, Academic advisement, Student needs assessment, Classroom lecturing, Group and individual instruction, Student records management, Student counseling, Classroom management, Presentations, Critical thinking, Document proofreading, Academic writing, Faculty leadership

Contribution to professional societies

In May 2022 – Present, Elected as a Board Member for Bahir Dar Charter, in Ethiopian Society of Professional Engineers, in a meeting held at Bahir Dar, Ethiopia.

Volunteer activities

When a BSc student, I was a member as well leading at student clubs such as “Society of Electrical and Computer Engineering”, “Redefining Life”, “Anti AIDS”, etc. I am now active member in Ethiopian Blood Donors association.

INDUSTRY INTERNSHIP EXPERIENCE

Tanabeles Sugar Factory

[5 Jul 2020 – 7 Sep 2020]

Industry externship of university lecturers, Jawi, Amhara, Ethiopia

Addis Ababa Light Rail Transit

[8 Sep 2018 – 30 Dec 2018]

MSc student internee, Addis Ababa, Ethiopia

East Africa Bottling Share Company/ Coca-cola Factory

[1 Feb 2015 – 30 Jun 2015]

A BSc student internee, Dire Dawa, Ethiopia

RECOMMENDATIONS

Name: Dr.-Ing Getachew Biru Worku

Phone number: (+251) 911623745

Email: gbiru@yahoo.co.uk

Getachew Biru Worku (PhD), Associate Professor of Electrical Power Engineering in Adama Science and Technology University, and Adjunct Professor at Addis Ababa University, Bahir Dar University, University of Gondar. Address: Addis Ababa, Ethiopia.

Name: Dr. Getnet Taddese Ayele

Email: getnet@encoord.com

Getnet Taddese Ayele (PhD), Senior Mathematical Modeler at Encoord. Address: Essen, Germany, Alternative e-mail: aytadget@gmail.com