**CV**

|  |  |
| --- | --- |
| Name |  Muluken Zegeye Getie (PhD) |
| Education (Degree, discipline, institution, year) | * BSc: in Industrial Engineering, Mekelle University, 2005
 |
| * MSc: in Sustainable energy Engineering, Bahir Dar University,2014
 |
| * PhD: In energy engineering, 2021.
 |
| Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate), when full time or part time | * [April 2021 – now] Assistant professor, Bahir Dar University, Bahir Dar, Ethiopia
* [July 2014 – April 2021] Lecturer, Bahir Dar University, Bahir Dar, Ethiopia
* [March 2012 – July 2014] Assistant Lecturer, Bahir Dar University, Bahir Dar, Ethiopia
* [April 2008 – March 2012] Instructor, Bahir Dar Poly technic college, Bahir Dar, Ethiopia
* [Oct 2005 – April 2008] Labor inspector expert, Awi Zone Labor and social affairs department Injibara, Ethiopia
 |
| Position experience  | * [August 2015 – March 2018] Dean for faculty of Mechanical and industrial Engineering, Bahir Dar University, Bahir Dar, Ethiopia
* [December 2013 – August 2015] Income generation coordinator, Bahir Dar University, Bahir Dar, Ethiopia
* [2009 – 2010] Department head, Bahir Dar Poly technic college, Bahir Dar, Ethiopia
 |
| *Overall experience*  | * *16 years in teaching and as experts*
* *5 years and 5 months in leadership position*
 |
| Certifications or professional registrations | * Certified on Electromechanical equipment and machinery maintenance ( competent with level IV) from Amhara centre of competence
* Graduated with higher Diploma as a Certified Professional Teacher Educator from Bahir Dar University College of Education and Behavioral Science, February 2018
 |
| Current membership in professional organizations | * Amhara scholars’ association
 |
| Honors and awards | * Certificate of appreciation in recognition for distinguished and outstanding contribution as best department head in the year 2002 E.C at Bahir Dar polytechnic college
* Certificate of appreciation in recognition of distinguished and outstanding contribution for effective implementation of ISO 9001:2008 Quality Management System as task force member from January 2009 to July 2010.
* Certificate of appreciation in recognition for distinguished and outstanding performance as a dean of faculty of mechanical and industrial engineering in 2009E.C at Bahir Dar Institute of technology, Bahir Dar University.
* Certificate on successful completion of the training on Quality Management System Audit based on ISO 19011:2002 organized by the Ethiopian standards Agency (ESA)from 13-17June 2011 at Bahir Dar
 |
| Service activities (within and outside of the institution) | * Certificate on successful completion of the training on Quality Management System Development & Implementation based on ISO 9001:2008 organized by the Ethiopian & Standards Authority Ethiopia (QSAE)from 21-25June 2010 at Addis Ababa
* Certificate on successful attending of the training on Theoretical and practical verification of Commercial weighing Instruments (Balances) and fuel Dispensers from 14-18 November, 2011 at Debre-Markos
* Certificate on successful completion of a job enhancement training program conducted by ZEDE ENGINEERING in the field of Air Condition and Ventilation System Design from February 20-26,2017
* Certificate on successful completion of training Troubleshooting and Maintenance of PICO solar System & Solar home systems from March 09-11/2015, organized by BiT, Fosera Manufacturing PLC, Atmoosfair GmbH and GIZ EnDev
* Certificate on successful completion of Managerial Communication and decision-making, strategic thinking, and goal achievement training conducted by the Ethiopian management institute from October 23-29/2017.
* Certificate of recognition for the contribution as Quality Management System Internal auditor conducted from February 6-10,2012 in Bahir Dar Polytechnic College.
* Certificate of recognition for the contribution in participating on the feasibility study of chicken meat processing plant and strategic plan development for Kombolcha poultry resource development enterprise for around a year in the year 2017.
* Certificate of recognition for the contribution in feasibility study of Steel rolling factory for Tana Metal Work Share Company from January 2008E.C to December E.C
* Certificate of recognition for the contribution in the development of Construction Equipment Valuation and Disposal Directive and manual from February 2020 to December 2020.
 |
| Briefly list the most important publications and presentations from the past five years – title, co-authors if any, where published and/or presented, date of publication or presentation | 1. Dessie T. Bantelay ; [Muluken Z. Getie](http://www.qjie.ir/?_action=article&au=2605910&_au=Muluken+Zegeye+Getie); [Betelhem D. Bruk](http://www.qjie.ir/?_action=article&au=2605908&_au=Betelhem+Dereje+Bruk); Robile N. “Analytical Modeling of Specific Energy Consumption and Cost Share in Comprehensive Textile Industry: Case Study of Ethiopia”, Journal of optimization in industrial engineering. Article in press
2. Muluken Zegeye GETIE; Mehare DEGEFA; “[Assessment of trend and determinant factors for household energy utilization choice in urban areas of Ethiopia: Case of Eastern Amhara](http://www.jemat.org/article_91185.html)”. Journal of energy management and technology. Article in press
3. Muluken Z. GETIE , François LANZETTA, Sylvie BEGOT , Bimrew T. ADMASSUand Steve DJETEL GOTHE; “Optimization of a regenerative Stirling machine for moderate refrigeration” Congrès Français de Thermique Nantes 3-6 June,2019
4. Muluken Z. GETIE , François LANZETTA, Sylvie BEGOT , Bimrew T. ADMASSU and Abdulkadir A Hassen. “Reversed regenerative Stirling cycle machine for refrigeration application: A Review”. International Journal of Refrigeration, 118 (2020) 173–187.
5. [Tomas Cherkos](https://www.semanticscholar.org/author/Tomas-Cherkos/120104514), [Muluken Zegeye](https://www.semanticscholar.org/author/Muluken-Zegeye/98524047), [Shimelis Tilahun](https://www.semanticscholar.org/author/Shimelis-Tilahun/84337683), [Muralidhar Avvari](https://www.semanticscholar.org/author/Muralidhar-Avvari/100513566) “Examining significant factors in micro and small enterprises performance: case study in Amhara region, Ethiopia”, journal of industrial engineering international June 2018, Volume 14, [Issue 2](https://link.springer.com/journal/40092/14/2/page/1), pp 227–239
6. Muluken Zegeye, Tomas Cherkos and and Shimelis Tilahun; “[Analysis of Challenges and Strategic Approach for Micro and Small Enterprises: The Case of Furniture Manufacturing in Amhara”, ebook Amazone.ca Kindle Edition 2017.](https://www.amazon.co.uk/Analysis-Challenges-Strategic-Approach-Enterprises-ebook/dp/B0755H2Q5N/ref%3Dsr_1_1?qid=1569585704&refinements=p_27%3ATomas+Cherkos++and+Muluken+Zegeye&s=digital-text&sr=1-1)
7. Muluken Z. GETIE , François LANZETTA, Sylvie BEGOT , Bimrew T. ADMASSUand Steve DJETEL GOTHE “Performance analysis of Beta-type Stirling cycle refrigerator for different working fluids”. on the 8th international conference on the advancement of Science and technology (ICAST-2020), Bahir Dar Ethiopia
8. Muluken Z. GETIE , François LANZETTA, Sylvie BEGOT , Bimrew T. ADMASSUand Steve DJETEL GOTHE “[Simulation and parametric study on a Beta-type Stirling refrigerating machine](https://www.sft.asso.fr/DOIeditions/CFT2020/PDF/70_doi.pdf)”. Congrès Français de Thermique ,Belfort, France, 2020.
9. Muluken Zegeye , Tassew Tadiwos , Abdulkadir Aman “Optimal sizing of solar water pumping system for small scale irrigation: Case study of Dangila” International Journal of Sustainable and Green Energy,  Published: Sep. 20, 2014
10. Muluken Z. GETIE , François LANZETTA, Sylvie BEGOT , Bimrew T. ADMASSU and Steve Djetel Gothe . “A non-ideal second order thermal model with effects of losses for simulating beta-type Stirling refrigerating machine”. International Journal of Refrigeration, 130 (2021) 413-423.
11. Muluken Z. GETIE , François LANZETTA, Sylvie BEGOT and Bimrew T. ADMASSU. “Investigation of thermal and fluidic losses and their effect on the performances of a Stirling refrigerator”. ISTE Ltd. London, UK – openscience.fr. 2021
12. Sylvie Bégot, Muluken Z. Getie, Alpha Diallo, François Lanzetta , Magali Barthès and Michel de Labachelerie ‘’A Novel Model and Design of a MEMS Stirling Engine’’.

International Journal of Heat and Technology Vol. 39, No. 4, August, 2021, pp. 1037-10461. S. BEGOT1 , M. Z. GETIE , A. DIALLO , F. LANZETTA , M. BARTHES , M. de LABACHELERIE ‘’ Conception et modelisation d’une micro-machine ´ Stirling’’. Congrès Français de Thermique , Belfort,France, 2021.

 <https://doi.org/10.25855/SFT2021-068>1. Sylvie Bégot, Muluken GETIE, Alpha Diallo, François Lanzetta, Magali Barthès and Michel de Labachelerie. ‘’A novel model and design of a MEMS Stirling cooler for local refrigeration’’ l9th International Stirling Engine Conference (ISEC 2021). <https://doi.org/10.1051/e3sconf/202131310001>
 |
| Briefly list the most recent professional development activities | * Consultancy service
* Research in Energy areas
* Advisory board member for Amhara metal industry
 |