

Curriculum Vitae (CV)

Personal Information

- ❖ Full name: **Teshome Mulatie Bogale, Ph.D.**
- ❖ Birth place: **Debark, N. Gondar, Amhara, Ethiopia**
- ❖ Nationality: **Ethiopian**
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Education Background

I have studied my degrees in abroad and Ethiopia.

- 2015 – Received **Ph.D. Degree** in Mechanical Engineering at National Taiwan University of Science and Technology, Taipei, Taiwan.
- 2010 – Received **M.Tech. Degree** in Manufacturing Engineering at Addis Ababa University
- 2008 – Received **B.Sc. Degree** in Mechanical Engineering at Mekelle University,
- 2004 – Dabat Preparatory and High School, North Gondar, Amhara

Work Experience

I have served more 12 years at Bahir Dar University with different ranks.

- **Assistant Professor** of Mechanical Engineering from August, 2015 – Now, Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia.
- **Postgraduate Coordinator /Vice Dean Rank/** for Faculty of Mechanical and Industrial Engineering from March, 2021- Now
- **Chair holder** for Manufacturing Engineering Stream from October, 2016 – April, 2017:
- **Lecturer** of Mechanical Engineering from August, 2010 – August, 2015
- **Assistant Lecturer** of Mechanical Engineering from March, 2009 – August, 2010.

Taught courses for MSc Students

Advanced Foundry Technology, Unconventional Manufacturing Processes, Metal Forming Theory and Practice, Advanced Metal Joining Process, Metrology and Computer Aided Inspection

Research Interests

CAD/CAM, Additive Manufacturing, Optimization of Process Parameters, Application of Non-conventional and Advanced Manufacturing Process, Engineering Metrology, Development and Characterization of Composite Materials.

Skills

I have basic and advanced skills on the following software packages: Autodesk fusion 360, Auto CAD, Solid Work, Pro Engineer, MATLAB, ANSYS, MasterCam, ProCast, C++, Minitab, and others.

Publications

1. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, "Mathematical Determination of a Flute, Construction of a CAD Model, and Determination of the Optimal Geometric Features of a Microdrill," Arabian Journal for Science and Engineering, vol. 40, pp. 1497-1515, 2015.
2. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, "Multiple Response Optimization in Printed Circuit Board Drilling Parameters Using Taguchi-Grey Relational Analysis Coupled with Principal Component Analysis and Tool Life Analysis," Advance in Mechanical Engineering, (Accepted)
3. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, "Grey Relational Analysis Based Taguchi Method for Optimization Design of the Drilling Parameters in PCB Drilling Process," Key engineering materials, vol. 649, pp. 104-111, 2015.
4. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, "CAD Modeling and Optimization of the Optimal Geometric Features of a Microdrill," Key Engineering Materials, vol. 649, pp. 66-73, 2015.

Conferences

1. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, "CAD Modeling and Optimization of the Optimal Geometric Features of a Microdrill," 18th International Conference on Mechatronics Technology, ICMT2014, Taipei, Taiwan.

2. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, “Grey Relational Analysis Based Taguchi Method for Optimization Design of the Drilling Parameters in PCB Drilling Process,” 18th International Conference on Mechatronics Technology, ICMT2014, Taipei, Taiwan.
3. **Teshome Mulatie Bogale**, Fang-Jung Shiou, and Geo-Ry Tang, “Construction of the CAD Model and Optimization of the Geometrical Features of a Microdrill” 17th International Conference on Mechatronics Technology, ICMT2013, Jeju Island, Korea.

Advised MSc thesis (Only completed)

1. Solomon Tesfaw Alemu and **Teshome Mulatie Bogale**, “Investigating the Compositional Effects of Virgin and Recycled HDPE on Mechanical Properties of Pipe Fitting,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2020.
2. Elias Tsigemariam Tekle and **Teshome Mulatie Bogale**, “Mechanical Properties and Characterization of CuO-MgO Reinforced Aluminum Metal Matrix Composite,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2020.
3. Muluken Alemu and **Teshome Mulatie Bogale**, “Multi-Objective Optimization of Tungsten Inert Gas Welding Process Parameters on 304L Stainless Steel Using Taguchi-Based Grey Relational Analysis,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2020.
4. Habtemaryam Bayleyegn Azene and **Teshome Mulatie Bogale**, “Characterization of hybrid flax glass fiber reinforced polyester matrix composite,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2020.
5. Habtemariam Mersha Adam and **Teshome Mulatie Bogale**, “Mechanical Property Characterization of Hybrid Sisal and Stinging Nettle Fiber Reinforced Epoxy Composite Material,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2020.
6. Belete Ambachew and **Teshome Mulatie Bogale**, “Experimental Investigation on Mechanical Properties of Echinatus Fiber Reinforced Polyester Resin Composite Materials,” MSc Thesis in University of Gondar, Gondar, Ethiopia, 2019.
7. Ephrem Mamo George and **Teshome Mulatie Bogale**, “Design and Fabrication of Plastic Injection Molding Die for Bahir Dar University logo,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2019.
8. Solomon woldie G/Selassie and **Teshome Mulatie Bogale**, “Analysis and optimization of cold steel rolling parameters for reducing thickness,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2019.

9. Mulatu Mengistayehu Workie and **Teshome Mulatie Bogale**, “Design, Fabrication and Adaptation of the Cotton Spinning Wheel Machine,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2017.
10. Asfaw Teferra Gebre and **Teshome Mulatie Bogale**, “Design and Fabrication of Small Engine Driven Teff Harvesting Machine,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2017.
11. Endalkew Berhe Gebreslase and **Teshome Mulatie Bogale**, “Design and Fabrication of Manual Operated Seedlings Transplanting Machine,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2017.
12. Melese Gelana Daba and **Teshome Mulatie Bogale**, “Design, Fabrication and Adaptation of Sugarcane Internode Cutting and Bud Chipper Machine for Plantation,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2017.
13. Abebe Genetu Wollie and **Teshome Mulatie Bogale**, “Design and Fabrication of a Pedal Powered Multi-Thresher Machine,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2017.
14. Feleke Worku Tadesse and **Teshome Mulatie Bogale**, “Design and Fabrication of Pedal Operated of Flour Milling Machine for Local Beer,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2017.
15. Shimelis Bihon Gasha and **Teshome Mulatie Bogale**, “Optimization of Process Parameters for HDPE Pipe Extrusion Using Grey Based Taguchi Method,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2016.
16. Ermias Aswossie Berihun and **Teshome Mulatie Bogale**, “Parameters Optimization of PET Plastic Injection Molding Process for Preformed Bottle Production Using Grey-Taguchi Method,” MSc Thesis in Bahir Dar University, Bahir Dar, Ethiopia, 2016.

Certificates

1. Community service certificate on “**Development of electrically operated structural steel cut off machine**“, Bahir Dar Institute of Technology, Bahir Dar, Ethiopia, 2020
2. Accomplishment course certificate of “**3D Printing Software**,” an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera in 2020.
3. Accomplishment course certificate of “**3D Printing Hardware**,” an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera in 2020.

4. Accomplishment course certificate of “**3D Printing Applications**,” an online non-credit course authorized by University of Illinois at Urbana-Champaign and offered through Coursera in 2020.
5. Accomplishment course certificate of “**Introduction to CAD, CAM, and Practical CNC Machining**,” an online an online non-credit course authorized by Autodesk and offered through Coursera in 2020.

References

1. **Professor Fang-Jung Shiou** (PhD Advisor)

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2. **Professor Geo-Ry Tang**

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3. **Dr. Bimrew Tamrat Admasu** (Associate Professor)

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