



## Mengistu Gelaw Woyesa

Nationality: [REDACTED] Date of birth: [REDACTED] Gender: [REDACTED]

Phone number: [REDACTED] Email address: [REDACTED]

Email address: [REDACTED]

Work: [REDACTED]

### WORK EXPERIENCE

#### Lecturer and Resercher of Mechanical Engineering/

*Adama Science and Technology University* [ 11/10/2018 – Current ]

City: Adama

Country: Ethiopia

#### Main activities, Skills, and knowledge Developed during this Period:

- Experience in the field of Manufacturing Engineering;
- Comprehensive experience in experimental investigations, material engineering, metallurgy, analysis and characterization methods;
- Experience in mechanical testing and characterization equipment;
- Demonstrated experience in the use of CAD software for 3D modeling (Catia V5)
- Experience with finite element analysis, and familiarity with Abaqus and ANSYS packages
- Perform in-depth analyses of experimental data to draw scientific conclusions
- Collaborate with a dynamic team of scientists, engineers, and expertise
- Project reporting, publishing in scientific journals, and participation in national conferences
- Engaged in community service and technology transfer projects
- Carry out, research on Polymer composite materials, Metals, and Metal forming
- Provides Advisory for undergraduate and Postgraduate students (co-advisor)

#### Lecturer of Mechanical Engineering/

*Wolkite University* [ 07/08/2014 – 10/09/2018 ]

City: wolkite

Country: Ethiopia

#### Main Activities and Responsibilities:

- Preparation of Teaching materials for Mechanical Engineering Students
- Delivering Majore course's lecture for Mechanical engineering students

### EDUCATION AND TRAINING

#### MSc in Manufacturing Engineering/

*Adama Science and Technology Univeristy* [ 16/02/2016 – 11/01/2018 ]

City: Adama

Country: Ethiopia

Website: <https://www.astu.edu.et>

Field(s) of study: Manufacturing Engineering

Final grade: CGPA =3.91/4.00 and Thesis result is Excellent

**Thesis: Manufacturing and Mechanical Characterization of Square Bar made of Aluminium Scraps through Friction Stir Back Extrusion Process**

Occupational Skills Covered

- Basic principles of proposal and research writing;

- Manuscript preparation and publishing of articles;
- Conducting seminars;
- Basic knowledge of conducting scientific experiments and articulating results;

## **BSc in Mechanical Engineering/Manufacturing/**

**Adama Science and Technology Univeristy** [ 09/10/2009 – 03/07/2014 ]

City: Adama

Country: Ethiopia

Field(s) of study: Mechanical Engineering

Final grade: 3.31

Link: <https://www.astu.edu.et>

## **LANGUAGE SKILLS**

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Mother tongue(s): **Afan Oromo**

Other language(s):

**English**

**LISTENING C2 READING C2 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## **DIGITAL SKILLS**

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Microsoft Office / Microsoft Excel / Microsoft Word / Microsoft PowerPoint / Social media / Facebook / Gmail / Zoom / Video conferencing (Zoom Skype Google Hangout)

## **PUBLICATIONS**

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### **Effect of Caesalpinia decapetala on the Dry Sliding Wear Behavior of Epoxy Composites.**

[2023]

Hailemariam B., Mengistu G., Kiran S., Venkatesh C., Manzoore E.M S., V., Ali A., Tawfiq A.

Write here the description...

### **Comprehensive review on polymer composites as electromagnetic interference shielding materials**

[2022]

Kiran S., Mengistu G., Vineet T., Manzoore Elahi M S., Pavan S., MA M., Kiran MC, Gulam M. S. A.

### **Manufacturing and mechanical characterization of square bar made of aluminium scraps through friction stir back extrusion process**

[2018]

Mengistu Gelaw, Perumalla Janaki Ramulu, Dagmawi Hailu, Tariku Desta

### **An extensive data set related to micro-drilling of Al-SiC-B4C hybrid composite through $\mu$ ECM using GRA coupled PCA**

[2020]

Venkatesh Chenrayan, Mengistu Gelaw, Chandru Manivannan, Venkatesan Rajamanickam, Ellappan V.

### **Simulation and experimental analysis of re-design the faulty position of the riser to minimize shrinkage porosity defect in sand cast sprocket gear. (Proceedings)**

[2022]

Beza Tadele Bekele, J Bhaskaran, Solomon Dufera Tolcha, Mengistu Gelaw

## **Experimental and optimised data set for hot extrusion of B4C/Al 6061 composite using Taguchi coupled GRA technique**

[2022]

Venkatesh C., Mohanram P., C. Venkatachalam, Mengistu G.

## **Performance analysis of coffee husk with nano-SiO<sub>2</sub> particles reinforced unsaturated polyester composites. (Conference)**

[2022]

Engdasew Gezahgn Fenklie, Balkeshwar Singh, Habtamu Beri, Mengistu Gelaw

Write here the description...

## **Web Buckling Investigation of Direct Metal Laser Sintering-Based Connecting Rod with Hexagonal Perforations. (Book Chapter)**

G. M. Sayeed Ahmed, G. Mengistu, R. J. Perumall, Belay B., Devendra K..S., Satyam S. G.

## **PROJECTS**

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### **Development of Hybrid Metal Matrix Composites Based on Cu- TiC - SiC for Different Engineering Applications (Principal Investigator)**

[ 02/12/2020 – Current ]

### **Design and Fabrication of Intensive care Unit Bed (ICU bed)**

[ 08/07/2020 – 10/10/2021 ]

Professional contribution as technology transfer work by Participation in proposal development, designing, fabrication, and report writing.

### **Design and Fabrication of Sanitizing Tunnel for Disinfection of Human Body**

[ 08/10/2020 – 10/10/2021 ]

Professional contribution as technology transfer work by Participation in proposal development, designing, fabrication, and report writing.

### **Designing and Fabricating Hole Excavating Machine which uses to Prepare Holes for Planting Tree (Obtained recognition certificate from VPRT)**

[ 01/05/2020 – 10/06/2020 ]

Professional contribution as technology transfer work by Participation in proposal development, designing, fabrication, and report writing.

## **BIBLIOMETRIC INDICATORS**

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- Google Scholar h-index 4 and 48 citations,
- Scopus: h-index 4 and 48 citations;
- Author and co-author for 7 papers published in well-known peer-reviewed international journals.

## **SYMPOSIUM/CONFERENCES**

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### **Organizing Committee and Participation**

- Participated as Prototype/poster presenter on the 4th international Research symposium on "Promoting Digital Economy through Research and Innovation" organized at Adama, Ethiopia from April 28-29/2023;
- Organizing Committee members for the International Symposium on Advanced Manufacturing Ethio-china held at Bishoftu, Ethiopia from November 3-9/2019;

## HONOURS AND AWARDS

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### Certificate of Recognition

Adama Science and Technology University [ 16/04/2022 ]

The Certificate is Awarded for my commitment to tirelessly mentoring the winner of ABIC 2022 (Bammgo startup) under the Entrepreneurship Development Center of Adama Science and Technology University (ASTU-EDC) given by the University President.

## MANAGEMENT AND LEADERSHIP SKILLS

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### Registrar Head of School of Mechanical, Chemical and Materials Engineering/

#### Main Activities and Responsibilities:

The main activities and responsibilities of this position are processing admissions, placement, scheduling, maintaining academic records, registration, and Issue of grade reports to all students in the School.

### Department Head of Mechanical Design and Manufacturing Engineering/

#### Skills and knowledge developed during this position are:

- Demonstrated management and leadership skills, including the ability to influence, inspire, engage, and motivate others;
- Demonstrate a "can-do" attitude as well as a willingness to participate first-hand in the Problem Solving;
- A rigorous and organized approach to work, producing quality results at the first attempt;
- Experience in supervising and managing a technical team. Good resource planning skills and project planning skills;
- Skilled at working across organizational boundaries and handling conflicting priorities. Excellent communication and Interpersonal skills;

## VOLUNTEERING

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### Delivered Training

[ 24/01/2022 – 31/01/2022 ]

Recognition and Acknowledgment for the Professional contribution for Agricultural Researchers in the field of Machinery Design. The training is intended to provide design assisting 3D software (**i.e. CATIA V5**).

## INTERNSHIP

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### Pohang University of Science and Technology, South Korea

[ 04/11/2013 – 29/01/2014 ]

- Studying the effect of heat in hot steel production and simulating the effect of gravity in rolling hot steel using ABAQUS software;
- Developed good interpersonal and Teamwork skills;
- Demonstrable communication and interpersonal skills;
- Collaborate with multidisciplinary research teams and work with Industrial expertise
- Opportunity to see the cultural, religious, and ethnic groups of Asian people and to see the world through someone else's eyes.

## TECHNICAL SKILLS

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### Hard skills

[ 10/10/2009 – Current ]

- Hardware troubleshooting of Machine parts
- Characterization, Optimization, and performing tests using standard testing equipment
- Welding, forming, metal, and casting
- C++ Programming
- Writing Program for CNC using Master CAME
- Designing using design software (**CATIA**)

- Analyzing using **ANSYS** and **ABAQUS**
- Analyzing of Statically Data using R-Studio

## **PERSONAL CHARACTERISTICS**

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- Enthusiastic and highly motivated;
- Able to work independently and committed to actively collaborate with others in driving optimal solutions from diversified opinions;
- Diligent, thorough, and hard-working;
- Able to work structured and goal-oriented with a drive to get projects finished;
- Creative problem solver in developing innovative ideas using design thinking;
- Open to feedback and inputs from others;

## **HOBBIES AND INTERESTS**

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My hobby is watching updated technological movies, especially in the mechanical engineering field. I am interested in learning new technologies and giving more time to grasp the idea and adopt the technology.

## **REFERENCES**

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[ 10/01/2018 – Current ]

1. Dr. Habtamu Beri
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