

**Curriculum Vitae**

## Personal information

**First name(s) / Surname(s)** Dawit Alemayehu BogaleOld Name **Sintayehu Alemayehu Bogale**Address(es) Dawit Alemayehu  
P.O.Box 1809  
Bahir Dar  
Ethiopia

Telephone(s) +251-582203644 (office) Mobile +251-918790125

Fax(es) +251-582202027 (office)

E-mail(s) [bogale.sintayehu@gmail.com](mailto:bogale.sintayehu@gmail.com)

Nationality Ethiopian

Date of birth 26 July 1989

Gender Male

**Education****Graduate Program**

Dates October 2010 – January 15, 2013

Title of qualification awarded MSc in Mechanical Design

Principal subjects /  
occupational skills covered Applied Mechanics scienceName and type of  
organisation providing  
education and training Addis Ababa University, Governmental Organization**Undergraduate Program**

Dates October 2004- June 2009

Title of qualification awarded Bachelor of science in Mechanical Engineering

Principal subjects / occupational skills covered	Mechanical Engineering
Name and type of organisation providing education and training	Jimma University, Governmental Organization
<b>Training</b>	
Dates	16/03/2009 – 20/03/2009
Title of qualification awarded	Certificate of participation
Principal subjects / occupational skills covered	Certificate for completion of one-week Computational Fluid Dynamics (CFD) Software training using Fluent and Gambit software, Thermal and Design Software
Name and type of organisation providing education and training	Jimma University, Governmental Institution
Level in national or international Classification	International
Dates	October 22- December 31 <sup>st</sup> /2009
Title of qualification awarded	Certificate of participation
Principal subjects / occupational skills covered	Certificate of participation on a workshop in pedagogical skills that mainly focused on learner centred Methods of Instruction and Measurement and Evaluation in Higher Education Institutions.
Name and type of organisation providing education and training	Bahir Dar University, Governmental Institution
Level in national or international Classification	International
Desired employment / Occupational field	Lecturer and research work
<b>Work Experience</b>	
Dates	From 20/05/2013 G.C still working as rank of Lecturer
Occupation or position held	From 23/09/2010-----19/05/2013 G.C as Assistant Lecturer
	From 22/09/2009-----22/09/2010 G.C as Graduate Assistant II

Main activities and responsibilities	-Delivering courses under the department of Mechanical Engineering -Preparing hand out and lecture notes -Advising students -Revising and Preparing course curriculum - I participated in curriculum preparation held in Bahir Dar University
Name and address of employer	Bahir Dar University Engineering Faculty P.O.Box 26 Fax +251 582 20 20 27 Bahir Dar, Ethiopia
Type of business or sector	University
Dates	*October, 2009- January, 2011, **June 20/2014-August 27/2014
Occupation or position held	*Assistant Lecturer, **Lecturer
Main activities and responsibilities	*Delivering tutorial and lecture class for 12 <sup>th</sup> students for the course Technical Drawing **Delivering Lecture and laboratory class for Level 5 Automotive Students For the courses Develop and Apply Mechanical System Modification Develop and Apply Hydraulic System Modification Develop and Apply Pneumatic System Modification Develop and Apply Electronic system Modification Develop and Apply Electrical system Modification
Name and address of employer	*Yekatit 12 <sup>th</sup> secondary and Preparatory School & *Future Hope Generation Secondary and Preparatory School Addis Ababa Ethiopia **Bahir Dar Polytechnic College Bahir Dar Ethiopia
Type of business or sector	University
<b>Relevant coursework in my post graduate study</b>	Finite Element Method, Analytical Method in Engineering, Fluid Power System Design, Machine Dynamics, Industrial Project Management, Product Design, Advanced Mechanics of Materials, Product Testing, Fracture Mechanics, Kinematics and Dynamics Simulation of Multi- Body Systems, Research Methodology, and Pedagogy
<b>Projects Executed</b>	<b>1. Low Carbon Steel Characterization under Quasi-Static Strain rate For Bumper Beam Application. (Numerical and Experimental Methods)</b> <b>M.Sc. Thesis (2012/2013):</b>

	<p>This paper investigates the mechanical behavior of three selected steel materials which are considered to be the bulk material of front most bumper beam of a vehicle that is suddenly loaded in the quasi-static range. Thirty-six constant strain rate uniaxial tension tests were performed. The test was performed on a HUALONG Electro-hydraulic Universal testing machine at four Strain rates ( <math>3.33 \times 10^{-3}</math>, <math>3.33 \times 10^{-2}</math>, <math>3.33 \times 10^{-1}</math>, <math>3.33 \text{ s}^{-1}</math>). The FEM which is ABAQUS/CAE is used to simulate the bumper subsystem using three low carbon steel. The outcome shows that UTS increase with an increase in strain rate and HAS material has the maximum mean UTS. The FEA in the post - processing stage gives the minimum displacement and maximum strain energy for HAS material when compared to the other two materials. Finally from both experimental and ABAQUS explicit analysis the result shows HAS material is better suit for the bumper beam application.</p> <p><b>1. Design and Development of Shell and Tube Heat Exchanger for Harar Brewery Company Pasteurizer Application (Mechanical and Thermal Design)</b>  <b>B.Sc. Project (2009):</b></p>
<p><b>Course Projects at Undergraduate Level</b></p> <p><b>Course Projects at Postgraduate Level</b></p> <p><b>Ongoing Research</b></p> <p><b>Area of Interest</b></p>	<ul style="list-style-type: none"> <li>• Design of two step reducer Gear Box</li> <li>• Design of pressure vessel</li> <li>• Design of Mechanical Jack</li> </ul> <ul style="list-style-type: none"> <li>• Dynamic analysis of Passengers Stair Ethiopia Airlines, under the course Finite Element Method</li> <li>• Product design of Briquette Producing machine, under the course Product Design</li> <li>• Market analysis of Walia Steel Industry around Sabetha city, under course Industrial project management</li> </ul> <p><b>Stress Analysis of Chip Formation Using Abaqus/CAE Software's</b></p> <ul style="list-style-type: none"> <li>• Computational micro mechanics</li> <li>• Damage/Fracture mechanics at micro/macro structure</li> <li>• Structural Health monitoring</li> <li>• Composite structure</li> <li>• Topology optimization and sensitivity analysis of composite structure</li> <li>• Plate and shell theory</li> <li>• Linear and non-linear FEA</li> </ul>

<p><b>Personal skills and competences</b></p> <p>Mother tongue(s)</p> <p>Other language(s)</p> <p><b>Self-assessment</b></p>	<ul style="list-style-type: none"> <li>• And, any research topic related with composite material, mechanics of structure and fracture mechanics.</li> </ul> <p><b>Amharic, Oromic</b></p> <p><b>English</b></p> <table border="1" data-bbox="524 569 1529 747"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th colspan="2">Writing</th> </tr> <tr> <th colspan="2">Listening</th> <th colspan="2">Reading</th> <th colspan="2">Spoken interaction</th> <th colspan="2">Spoken production</th> </tr> </thead> <tbody> <tr> <td>C</td><td>Proficient user</td> <td>C</td><td>Proficient user</td> <td>C</td><td>Proficient user</td> <td>C</td><td>Proficient user</td> </tr> <tr> <td>1</td><td></td> <td>1</td><td></td> <td>1</td><td></td> <td>1</td><td></td> </tr> </tbody> </table>	Understanding		Speaking		Writing		Listening		Reading		Spoken interaction		Spoken production		C	Proficient user	C	Proficient user	C	Proficient user	C	Proficient user	1		1		1		1	
Understanding		Speaking		Writing																											
Listening		Reading		Spoken interaction		Spoken production																									
C	Proficient user	C	Proficient user	C	Proficient user	C	Proficient user																								
1		1		1		1																									
<p><b>Social skills and competences</b></p> <p><b>Workshops</b></p> <p><b>Organisational skills and competences</b></p>	<p>Team spirit, good adaptability to the new environment and sociable with different doctrine</p> <ul style="list-style-type: none"> <li>➤ National workshop on Curriculum review Engineering capacity building programme Jan, 2013, for ten new sugar factory, Debre Zeit, Ethiopia</li> </ul> <p>Good experience in teaching</p>																														
<p><b>Computer skills and competences</b></p> <p><b>Publication</b></p>	<p>Good command of Microsoft Office CATIA, ANSYS, ABAQUS/CAE, Matlab , and Cad tools: AutoCAD</p> <p><b>1.Low Carbon Steel Characterization under Quasi-Static Strain rate For Bumper Beam Application</b> International Journal of Research in Mechanical Engineering Article ID:1301020201012) IN IJRME, ISSN Print: 23478772 ISSN Online: 2347-5188 Volume No.1 Issue No.2 October-December, 2013 Web: <a href="http://www.iaster.com">www.iaster.com</a></p> <p><b>2. Finite Element Simulation of Ball-On-Tennis Racket Impacts Using ABAQUS/CAE</b> Published in American Journal of Engineering Research Vol. 3, Issue 5, May 2014 E-mail id : <a href="mailto:ajer.research@gmail.com">ajer.research@gmail.com</a> Web.: <a href="http://www.ajer.org">www.ajer.org</a></p>																														

	<p><b>3. Design and Development of Shell and Tube Heat Exchanger for Harar Brewery Company Pasteurizer Application (Mechanical and Thermal Design)</b>  Published in American Journal of Engineering Research  Vol. 3, Issue 10, October 2014  E-mail id : <a href="mailto:ajer.research@gmail.com">ajer.research@gmail.com</a>  Web.: <a href="http://www.ajer.org">www.ajer.org</a></p>
<p><b>Hobbies</b></p>	<p>- Soccer, Watching Series movies and spiritual TV Channels , reading spiritual books and browsing internet</p>
<p><b>References</b></p>	<p><b>Ermias Gebrekidan Koricho (MSc thesis advisor)</b>  Mechanical Engineering Department  Michigan State University  Mobile:- +12404911750  Email:- <a href="mailto:gkermias@yahoo.com">gkermias@yahoo.com</a>  Michigan State, East Lansing  United State of America</p>