

ADDRESS

Dr.-Ir. Eshetie Berhan (PhD)

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PERSONAL BACKGROUNDS

Gender: Male

Status: Married

Birth Date: 29-03-1974

Nationality: Ethiopian

AWARD RECEIVED

- **PhD** in Mechanical Engineering on July 4, 2013
- **MSC** in Industrial Management on September 15, 2005
- **MSC** in Management, Economics & Consumer Studies, on March 10, 2005
- **BSC** in Computer Science on April 15, 2010
- **BSC** in Industrial Engineering on July 14, 2010

EDUCATIONAL BACKGROUNDS

- ❖ **PhD Degree:** From October, 2010 to July 4, 2013, in Mechanical Engineering, Industrial Engineering Specialization, in the School of Mechanical and Industrial Engineering, Addis Ababa Institute of Technology, Addis Ababa University, Ethiopia.

- ❖ **MSC Degree:** From October 1, 2004 to September 15, 2005 in Advanced Master Degree in Industrial Management, Center for Industrial Engineering, Katholieke Universiteit Leuven (KUL), Belgium.
- ❖ **MSC Degree:** From September 11, 2003 to March 10, 2005, Advanced Master Degree in Management, Economics and Consumer studies, Wageningen University, The Netherlands.
- ❖ **BSC Degree:** From October 7, 2007 to April 15, 2010 in Computer Science with very great distinction, in the Faculty of Informatics, Addis Ababa University, Addis Ababa, Ethiopia.
- ❖ **BSC Degree:** From September, 1996 to July 14, 2001, in Industrial Engineering with distinction, at Mekelle University, Ethiopia.

CERTIFICATES

- Certificate on Advanced Research Method System on March 24, 20
- Certificate on Complex System Design on July 2013.
- Certificate on Scientific Writings on July 2011
- Certificate in Teaching Pedagogics on July 3, 1993

EDUCATIONAL BACKGROUNDS

- **From 2011 up to now:** I am working as full time instructor in the School of Mechanical and Industrial Engineering, Addis Ababa institute of Technology, Ethiopia.
- **From November 2005 – November 2011:** Working as full time Senior Instructor at City University College, former Zegha Business College. During my stay in the same college, I have accomplished the following major activities: Working as a Member of a Team Planning and Arranging Workshops, Analyzing and identifying the areas needed for conducting

workshop; prioritizing the areas; working out the time frame for workshops; drafting the list of participants; assigning speakers and presenters; and taking attendance of participants invited to workshops, Addis Ababa, Ethiopia.

- **From June 2005 up to now:** I am working as a consultant engineer and technical advisor, trainers and researchers with various institutes and conducted project feasibility study, socio-economic study, system development, marketing research, plant layout planning and design, industrial project and feasibility study, quantitative and qualitative research method training, project management training and others, Addis Ababa, Ethiopia.
- **From November 2005 – October 2010:** I have been working as Part time Instructors in CPU College, Africa Beza College, Faculty of Business and Economics, AAU, Addis Ababa, Ethiopia.

DISSERTATION, THESES AND PROJECT WORKS

- **PhD Dissertation:** “Performance Analysis and Route Design of Addis Ababa Public Bus Transport (2013)”, In the School Mechanical and Industrial Engineering, Addis Ababa institute of Technology, In Addis Ababa University, Addis Ababa, Ethiopia.
- **MSc Thesis:** “The Role of Marketing Information Systems in Price Change Decision Making of Ethiopian Industries (2005)”, Wageningen University, The Netherlands.
- **MSc Thesis:** “The Influence of Dimensional Accuracy Specifications on Process and Production Management of Sheet Metal Bending (2005)”, Katholieke Universiteit of Leuven (KUL), Belgium.
- **BSC final Year Project:** “Financial System for Addis Credit and Saving (2010)”, Faculty of Informatics, Addis Ababa university, Addis Ababa, Ethiopia.

- **BSc Final Year Project:** “Algorithm and Programming Development in Inventory Control and Management Systems (2001)”, a case study at Messobo cement factory Sc. Mekelle University, Mekelle, Ethiopia.

PUBLICATIONS

1. **Eshetie Berhan** and Daniel Kittaw. The role of Marketing Information Systems (MKIS) in Service Quality in Ethiopian Industries, South African Journals of Industrial Engineering, Volume 23, Issue 1, Number, 2, 2013-09-30, pp. 66-76.
2. **Eshetie Berhan**, Birhanu Besha and Daniel Kittaw, The Role of Marketing Information Systems (MKIS) in Price Change Decision Making in Ethiopian Industries, International Journal of Science and Advanced Technology, Volume 2 , No 11, November 2012 pp. 5-10
3. **Eshetie Berhan**, Birhanu Beshah and Daniel Kitaw, Performance Analysis on Public Bus Transport of the City of Addis Ababa, International Journal of Computer Information Systems and Industrial Management Applications, Volume 5 (2013) pp. 722-728
4. **Eshetie Berhan**, Dejene Mengistu, Birhanu Beshah and Daniel Kitaw, Modelling and Analysis of Bus Scheduling Systems of Urban Public Bus Transport, International Journal of Computer Information Systems and Industrial Management Applications, Volume 6 (2014) pp. 404-412.
5. **Eshetie Berhan**, Pavel Krömer, Daniel Kitaw, Ajith Abraham, Václav Snášel, Solving Stochastic Vehicle Routing Problem with Real Simultaneous Pickup and Delivery Using Differential Evolution, Innovations in Bio-inspired Computing and Applications, Advances in Intelligent Systems and Computing, Springer International Publishing, Switzerland, Volume 237 (2014), pp. 187-200.

6. Hussein Soori, Michal Prilepok, Jan Platos, **Eshetie Berhan**, Vaclav Snasel, Text Similarity Based on Data Compression in Arabic, AETA 2013: Recent Advanced in Electrical Engineering and Related Sciences.
7. **Eshetie Berhan** and Ajith Abraham, Hierarchical Fuzzy Logic System for Manuscript Evaluation, Middle-East Journal of Scientific Research 19 (9): 1235-1245, 2014.
8. Birhanu Beshah, **Eshetie Berhan**, Life Cycle Quality, Journal for Quality Research, Vol. 8 No. 2, 2014.
9. **Eshetie Berhan**, Birhanu Beshah, Daniel Kitaw and Ajith Abraham, Stochastic Vehicle Routing Problem: a Literature Survey, Journal of Information & Knowledge Management, Vol. 13, No.3 (2014) 1450022, pp. 1-12.
10. Girum Dagnaw, Amare Teferi and **Eshetie Berhan**, Flash Assisted Segmented Bloom Filter for Deduplication, accepted on the first Afro-European International conference for Industrial Advancement November conference, Nov., 2014.
11. Haftu Hailu, Kassu Jilcha and **Eshetie Berhan**, Response Time Reduction in the Leather Products Manufacturing Industry Using Arena Simulation Method, accepted on the first Afro-European International conference for Industrial Advancement November conference, Nov., 2014.
12. Hermela Solomon, Kassu Jilcha and **Eshetie Berhan**, Lead Time Prediction Using Simulation in Leather Shoe Manufacturing, accepted on the first Afro-European International conference for Industrial Advancement November conference, Nov., 2014.
13. Abduletif Habib, Kassu Jilcha and **Eshetie Berhan**, Performance Improvement by Scheduling Technique: A Case of Leather Industry Development Institute, accepted on the first Afro-European International conference for Industrial Advancement November conference, Nov., 2014

14. Ermias Tesfaye, Kidist Girma, **Eshetie Berhan** and Birhanu Beshah, Simulation of Project Schedule When Individual Activity Durations Follow Different Probability Distribution Functions, accepted on the first Afro-European International conference for Industrial Advancement November conference, Nov., 2014.

BOOKS PUBLISHED

- **Eshetie Berhan, Ingenbleek Paul and Hofstede Gert Jan**, Marketing Information Systems and Price Change Decision Making: The case of Ethiopian Industries, Jul 26, 2012.
- **Yinges Alemu, Abebaw Abibo and Eshetie Berhan**, The Role of Nonfarm Activities on Income Generation to Rural household, Jan 3, 2013.

THESES ADVISED

- Bio-Sand Water Filtration Mechanism for Rural Areas, Adama Science And Technology University, School Of Engineering, Department of Construction Technology and Management, 2014.
- Design & Manufacture of Construction Material Lifting Hoist, Adama Science And Technology University, School of Pedagogy and Educational Science, Department of Construction Technology and Management, Temesgen Mario, Anteneh Dejene, Eshetu Kassa, Hawa Ayalew, 2014
- CONCRETE PRODUCTION PROCESS PLANNING IN ADAMA, Adama Science And Technology University, School of Pedagogy and Educational Science, Department of Construction Technology and Management, ASEFU, SERKSLEM, TERHAS TEARE, 2014
- Interlocking Soil- Cement Block as an Alternative Building Material, Pedagogy and Educational Science, Department of Construction Technology and Management, Debela Simena and Dadi Debelu, 2014

- 2013 Tanzania
- 2010 Kesete
- 2011 Sebele
- 2011 Rahel

THESES CO-ADVISED

- Mahalanobis-Taguchi System for Mobile Market in Ethiopia, Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Daniel Ashagrie, 2014
- Competitiveness Model Development for Ethiopian Traditional Fashions in the Global Market, Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Messele Kassaw, 2014
- Modeling and Analysis of City Bus Service Enterprise(ACBSE), Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Dejene Mengistu, 2013
- Transportation service quality design and improvement in Anbessa City Bus Enterprise (ACBE), Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Melkie Mihretie, 2013
- Maintenance Practice and availability of City Buses A case on Anbesa City Buses service Enterprise(ACBSE), Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Endris Sherif, 2013
- Productivity Measurement Model and Improvement Bank Industry, Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Dereje Dejene, 2013.

THESES EXAMINED

- 👉 Evaluation and Selection of Railway Stations for the Case of Addis Ababa/Sebaeta-Dire-Dawa North West Line, Belay Woledeamnueal, 2014
- 👉 Train Operation System Development for Addis Ababa Light Rail Transit, Addis Ababa institute of Technology, School of Multi-Disciplinary, Railway Engineering, Befikadu Dino, 2014.
- 👉 Design of Effective Railway Timetable Generation in Ethiopia, Addis Ababa institute of Technology, School of Multi-Disciplinary, Railway Engineering, Tekele Abadi, 2014.
- 👉 Fright Demand Forecasting for Addis Ababa Dire Dawa Railway, Addis Ababa institute of Technology, School of Multi-Disciplinary, Railway Engineering, Roba Teno, 2014.
- 👉 Addis Ababa Light Rail Transit Internal Trip Production Forecasting, Addis Ababa institute of Technology, School of Multi-Disciplinary, Railway Engineering, Digafe Taddesse, 2014.
- 👉 2014 Dynamic Locomotive Maintenance Management System, Addis Ababa institute of Technology, School of Multi-Disciplinary, Railway Engineering, Biruk Tefera, 2014.
- 👉 Competitive Advantage of Manufacturing Lead Time Reduction through Lean Techniques: A Value Stream Map Approach: The case of ANBESSA Shoe Share Company, Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Tizita Meteken, 2013.
- 👉 Quality and productivity Improvement in Ethiopian Footwear Industries Through Maintenance Management System, Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Liya Asmelash, 2013.

- 👉 Modeling Supply chain Integration systems in the Healthcare Industries (Case of Tikur Anbessa General Specialized Hospital, Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Abebe Beyene, 2013.
- 👉 Productivity Planning and Control System Development for the Quality Improvement of Job Shop Production (Case of Hibret Manufacturing and Machine Building Industry), Addis Ababa University, Addis Ababa institute of Technology, School of Mechanical and Industrial Engineering, Abiyot Ayele, 2013.

COURSES OFFERED

When I was working as an instructor in various universities and colleges, I offered the following courses:

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| <ul style="list-style-type: none"> • Operations Research • Project Management • Operations Management • Quantitative Techniques • Principles of Management • Material Management and Procurement • Quantitative & qualitative Research Methods • Business/Managerial Statistics • Mathematical Programing • Advanced Manufacturing system modeling and performance Analysis • Construction resource management • Production & Operation management | <ul style="list-style-type: none"> • Organization structure and Development • Machine Design • Auto CAD • Database Management (DBMS) • Statistics for Engineers & Scientists • System Analysis and Design • Engineering Economics • Computer Aided Project Management • Technical/Engineering Drawing • Procurement and Contract management |
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OTHER RESEARCHES

- As data enumerator in the Ethiopian Academic Science (2014) for the study of “Engineering and Technology Research Land Scape in Ethiopia”.
- Since July 2014, I am working team member for Ethiopian Science Academy (ESA) as data enumerator team leader, data analyzer and encoder during on the Assessment of Scientific and Technological Human Resource, in Ethiopia.
- Worked as a freelancer senior researcher in Beles Consulting Plc and study the impact assessment of Cooperatives in the socio economic development of Ethiopia as national survey.
- Conduct national market survey study for awash wine factory under the supervision of IQUAS.
- Conduct full feasibility study for Aluminum extrusion plant, construction retail and importing company.
- Research Project “The Feasibility study of Sugar cane plantation and production in Gojjam” (2003) at Bahir Dar University, Engineering Faculty, Bahir Dar, Ethiopia.
- Research member in the Technology and Engineering Working Group of Ethiopian Academic Science (2011) on the article “Contribution of Technology and Engineering Education in the Development of Ethiopia”.

SHORT TERM TRAINING

- Project Management, Monitoring and Evaluation for MCIT IT officers all over the country for ten days.
- Project Management, Monitoring and Evaluation for INSA higher officials, Addis Ababa, Ethiopia.

- Project Management, Monitoring and Evaluation for Senior Project managers of the ten sugar expansion industries at Sugar Corporation, Ethiopia Addis Ababa.
- Statistical Package for Social Science (SPSS) in dynamic International University College, Addis Ababa Ethiopia.
- Office and Record management in the Ministry of Physical Planning and Environment at Southern Sudan Government, Juba, South Sudan.
- Advanced Microsoft Project Management for higher officials in Nile Basin Initiative, Addis Ababa, Ethiopia.
- Advanced Microsoft Project Management for higher officials of US-embassy Addis Ababa, Ethiopia.
- Advanced Microsoft Project Management for higher officials of Action for Aid employees Addis Ababa, Ethiopia.
- Up to now trainer of danced Microsoft Project Management in Nero-Net and Techno Brain Plt. Company in Ethiopia for the last since 2009.

COMPUTER SKILLS

Java, Matlab, C++, VB.net, Database Management system, all MS-office applications, Auto Cad, MS-Project, SPSS, Adobe, Sure Track, Web page Design, PC-Hardware maintenance and Upgrading, Video and Photo Editing, SAS.

RESPONSIBILITIES IN AAIT

- ❖ From **August 1, 2013 up to now:** I am working as Director of Research, Technology Transfer and University Industry Linkage, in Addis Ababa University, Addis Ababa Institute of technology, Addis Ababa, Ethiopia.
- ❖ Since **May 2014**, I am working as an organizer on the Ethiopian side and committee member of the first “Afro-Euro international conference on

Industrial Advancement”, jointly organized by AAiT of Addis Ababa and Technical University of Ostrava the Czech Republic.

- ❖ Since **August 2014**, Working as a team member on the five years strategic development plan of AAiT.
- ❖ Form **August 2013**, up to **July 2014** working as a Reform Unit Member in AAiT.
- ❖ Since **April 2014**, I am working as a project planner and Controller on Yayu Fertilizer Complex Project.
- ❖ From **2011- 2012**: working as Evening Program Coordinator, in the School of Mechanical and Industrial Engineering, Addis Ababa Institute of technology, Addis Ababa, Ethiopia.
- ❖ From **2012- August 1, 2013**: working as Post Graduate Program Coordinator, in the School of Mechanical and Industrial Engineering, Addis Ababa Institute of technology, Addis Ababa, Ethiopia.

EXTRACURRICULAR ACTIVITIES ABROAD EXPERIENCES

- ✓ I have visited more than 16 technical colleges in Germany and Austria for about 2 months and in Kenya and Rwanda for one month.
- ✓ I have rich abroad experience for education and other different reasons in the following countries: Czech Republic, The Netherlands, Belgium, Germany, Austria, Kenya, Ruanda, Italy and France for education, experience sharing, Principal meeting and others.
- ✓ I am the founder, board member and the secretary of Ethiopian Society of Industrial Engineers (ESIE) Professionals Association.
- ✓ I worked as webmaster in Wageningen University, the Netherlands, for the International Student Organization for one year.
- ✓ Second Grade Driving license.

- ✓ A good skill in Pc-Maintenance.

LANGUAGES

- English and Amharic: Spoken and Written – Fluent
- Tigrigna: Listening and speaking (very beginner level)

REFERENCES

✚ Dr.-Ing. Daniel Kitaw, professor during my BSc and PhD study, Associate Professor Mechanical Engineering Department Addis Ababa University, P.O. Box: 10377, Tel: 251-911229880, E-mail: danielkitaw@yahoo.com.

✚ Prof. Alemayehu Tefera, School of Civil and Environmental Engineering, Addis Ababa institute of Technology, Addis Ababa University, and a Member of the Board EAS, Tel: +251-924356454, e-mail:

✚ Professor Ajith Abrham (PhD) Machine Intelligence Research Labs (MIR Labs), Scientific Network for Innovation and Research Excellence, Washington, USA, E-mail: abrham.ajith@gmail.com / ajith.abraham@ieee.org