

Curriculum Vitae – Mebtu Beza

Personal Information

First Name: Mebtu

Last Name: Beza

Father's Name: Bihonegn

Date and Place of birth: 28 November 1981, Gondar, Ethiopia

Nationality: Ethiopian

Work Address: Chalmers University of Technology, Department of Energy and Environment, Division of Electric Power Engineering, Hörsalsvägen 11, 412 96 Gothenburg, Sweden

Phone number: +46704464512 (mobile), +46317721632 (work)

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Education

January 2010 – February 2015: **Ph.D. in Electric Power Engineering**,
Chalmers University of Technology, Sweden

September 2007 – June 2009: **M.Sc. in Electric Power Engineering**,
Chalmers University of Technology, Sweden

September 2000 – July 2005: **B.Sc. in Electrical Engineering**
Bahir Dar University, Ethiopia

Employment History

March 2015 to date: Postdoctoral researcher at Chalmers University of Technology,
Department of Energy and Environment,
Hörsalsvägen 11, 412 96 Gothenburg, Sweden

January 2010 – February 2015: Ph.D. student at Chalmers University of Technology,
Department of Energy and Environment,
Hörsalsvägen 11, 412 96 Gothenburg, Sweden

July 2009 - December 2009: Temporary employee at ABB Corporate Research,
Department of Power Technologies, Power Systems
Group, Forskargränd 7, 721 78 Västerås, Sweden

January 2009 - June 2009: M.Sc. thesis worker at ABB Corporate Research,
Department of Power Technologies, Power Systems
Group, Forskargränd 7, 721 78 Västerås, Sweden

August 2005 – August 2007: Assistant Lecturer at Bahir Dar University, Faculty of
Engineering, Department of Electrical Engineering,
Bahir Dar, Ethiopia, Tel: +25158220654

Research and Teaching Experience

Currently, I am working on *investigation of electromagnetic transients in wind farms connected by HVDC*. This involves modeling, system study and control design to avoid the risk of instability in those systems. I have also been involved in research in the area of *control of power electronic devices for power system stability enhancement* during my Ph.D. This requires modeling, signal processing, control and experimental tests in the power system using single and multiple FACTS devices. Besides, I am involved in teaching M.Sc. courses such as Application of Power Electronics in Power Systems,

Power Electronic Devices and Applications, Power Electronic Converters, Power System Operation and supervising various M.Sc. and Ph.D. students.

Previously, I have been working on Multilevel Converters for HVDC application at ABB Corporate research. Moreover, I have been involved in teaching various undergraduate courses such as Circuit Theory, Signal Systems and Electrical Engineering Materials at Bahir Dar University.

Academic interests

Energy Storage and renewable energy
Application of FACTS and HVDC technology
Power system stability and control
Stability studies in wind farm systems

Computer related skills

Programming Languages: Fortran, C, C++
Software Applications: MATLAB, PSCAD/EMTDC, PSpice, Power World
Comsol Multiphysics, LATEX

Languages

Amharic: Mother tongue
English: Fluent
Swedish: Beginner

Other Merits of Relevance

Best Ph.D. Poster Prize award at the ELEKTRA Seminar on 19 June 2012 for presenting industrially interesting results with verification both in theory and experiment, ELEKTRA, Tel: +4686772732, Sweden.

MKP (Master Program for Key Personnel) scholarship to cover all costs for M.Sc. study from August 2007 – May 2009, SI (Swedish Institute), Tel: +46 8 455 78 00, Sweden.

Best student award for first standing in Engineering Faculty in B.Sc. graduation on 7 July 2005, Bahir Dar University, Tel: +25158220654, Ethiopia.

Publications

<http://www.chalmers.se/en/staff/Pages/mebtu-bihonegn-beza.aspx>

References

Prof. Massimo Bongiorno, Chalmers University of Technology, Department of Energy and Environment, Division of Electric Power Engineering, Gothenburg, Sweden, E-mail: massimo.bongiorno@chalmers.se, Tel.: +46 31 772 16 31

Prof. Torbjörn Thiringer, Chalmers University of Technology, Department of Energy and Environment, Division of Electric Power Engineering, Gothenburg, Sweden, E-mail: torbjorn.thiringer@chalmers.se, Tel.: +46 31 772 16 44

Dr. Georgios D. Demetriades, Manager of Electric Power Systems group, ABB Corporate Research, Västerås, Sweden, E-mail: georgios.demetriades@se.abb.com, Tel.: +46705323134