Nelec

CURRICULUM VITAE

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Training

Royal Institute of Technology (KTH), Stockholm, October 29, 1965, Master of Science, electricity, Teacher Training Institute in Linköping, 11 June 1969, mathematics and electrical engineering subjects. Language skills: Swedish, French, English as the language of work and study German in high school.

Current Position

Engineering activities. My own business, Nelec, registered in the county of Jönköping in Sweden. The activity began in January 2001. Technical consultancy, marketing software simulation and training. Nelec has a contract with EDF in France, as a distributor in Africa and Scandinavia and the Baltic countries of simulation software for power systems ARENE ™. (E.g. 2007-2009, thirteen licenses were installed at the Ecole Supérieure Polytechnique de Dakar for education and research at the university. Nelec site is presented on www.nelec.se). Work is performed when the possibility is offered.

Positions in Sweden

October 1965 - January 1967, Västerås, ASEA. Investigation engineer, product development in the field of protective equipment.
January 1967 - December 1968, Katrineholm Polytechnic School (KTS), Katrineholm. Professor of electrical energy, measurement technology, phone technology, the theory of electricity, electronics, mathematics and physics.
November 1971 - October 1975, Västerås, ASEA. Development engineer with research and development in the field of protective equipment and laboratory tests and field tests in power systems (Ultra High Speed protection tested at AEP 735 kV substation and at an MIT simulator).
August 1977 - June 1983. Västerås, Polytechnic High School, Zimmermanska / Wennströmska Skolan. Lecturer in Electrical Engineering. Teaching electricity, electrical energy, the theory of electrical machines and mathematics. (On leave for work abroad school years 1977-1978, 1978-1979, 1981-1982, 1982-1983.)
Consultancy work for ASEA in Västerås 1980 -1983 Relays in parallel with the teaching position in Sweden and abroad. Research and development of a theoretical model for real-time simulator of electric networks for testing protective equipment. Mainly the basic theory for an electronic model of a double line of power transmission and other models.
July 1983 - the end of 2002, Västerås, ABB (ASEA. July 1981 - February 1986, a team leader. February 1986 - August 1988. Manager of the general technology office at ASEA Relays. August 1988 - August 1989, Manager of the Research and Development office at ABB Relays. August 1991 - August 1995, project manager of research projects at ABB Relays and Patent Officer in the Business Area of protection of the ABB group. Another task was the planning research and development during the merging of Asea, Brown Boveri and Westinghouse. From July 1997 to 1999, project manager for the installation of a digital real time simulator of electric networks (Arene). From 1999 to the end December 2002, Centre Manager Simulation Test of protective equipment for external and internal customers. From 1993 I was moderator of the relationship with ABB and R & D Electricite de France in Clamart on development their new real-time simulator, Arene, which was later bought by ABB in 1999.

January 2003 - December 2004, Västerås, full-time consultant with my own small business (Nelec). Including contract with ABB Automation Technology for technical support and investigations within the field of simulation.
August 2005 - January 2006. Temporary job as a professor of mathematics and science Kaggeholms Folkhögskola, Ekerö, Stockholm.
October 2008 - March 2009 and November 2009. Temporary job as a high school teacher with the teaching of mathematics in Arlandagymnasiet Märsta.
February 2011: Study of a pumping station for a client in Senegal using ARENE, a computer program for simulation of transient and dynamic performance of power systems.

Jobs and operations overseas in aid projects

September 1969 - October 1971 and November 1975 - July, 1979, Kiremba, Burundi. Ecole Normale Kiremba (CEPBU). Teachers of mathematics and physics. Contributions from SIDA.
September 1, 1981 to August 31, 1983, Cyangugu, Rwanda. Groupe Scolaire de Gihundwe (ADEEPR). Director of the school group during two years when a new high school curriculum and a major expansion project in Cyangugu was started. Before leaving Sweden the purchase of the equipment of the school was planned. Contributions from SIDA.
August 1, 1989 - July 31, 1991, Bujumbura, Burundi. Cooperation with the CEPBU. Project Manager. Last year Representative of the Swedish Mission in Burundi. Projects that have been monitored: project studio recordings, 11 elementary schools, two secondary schools, one agricultural school, two health centres.
August 7, 1995 to July 31, 1997, Dabola, Republic of Guinea. Project in collaboration with the authorities in Guinea: the restoration and equipping a centre for education of women in Dabola, the construction and equipping of the laboratory of physics, chemistry and biology in the high school in the Dabola- City and materials to three schools in the county of Dabola, construction of latrines in 24

schools and program to focus on education on personal hygiene, a kindergarten Dabola, library in Dabola. Planning visits during 1993-1995 and follow-up visits and the completion of the project on behalf of PMU InterLife during the period 1998-2003. Contribution from SIDA.
20 October to 17 November 2001, February-April 2002 e-mail from March to June 2003, Thimphu, Bhutan. Work as electrical engineer at "The Production Project small transformer to Begana Factory", a collaboration with the Department of Power and later Bhutan Power Corporation and the PMU InterLife. The task was to introduce methods of calculation and the production of distribution transformers and the development of a Quality Manual (ISO 2000) and training local staff. Contribution from SIDA.
November 2010 and one week in March 2011: Consultant Administrator of a group of schools in Guinea.

Training and seminars as a consultant
March 25, 2002 Bhutan: Seminar on transformers and protective equipment technology at the Royal Bhutan Polytechnic in Phuentsholing. **July 2002 in Ouagadougou, Burkina Faso in November 2004 in Landsbro:** Training in the use of simulation software ARENE in Ouagadougou (2002) and extensive training in Landsbro of of the manger of dispatching of the power company SONABEL in Burkina Faso. **February-March 2008**: Basic (20 hours) the rate of the simulation of power system with the program for 17 teachers ARENE Electrical Engineering Department at the Polytechnic University of Conakry in Guinea.
Countries visited in operation: Burundi, Rwanda, Guinea (Conakry), Bhutan, France, Italy, Switzerland, Norway, the United Kingdom, the United States, Canada, Mexico, Singapore , Thailand, Côte d'Ivoire, Cameroon, Morocco, Tanzania, Congo, Burkina Faso, Togo, Benin, Ghana and Senegal
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Computer experience

- Programming Fortran, Pascal and C (as user and training during the ABB-periods).
- MS Word, Power Point, Excel, Project, Lotus Notes, Internet tools, etc..
- Unix real-time simulator and Windows-based simulator of non-real-time Arene simulation of electrical networks.
- Matlab (during the ABB-time).

Some publications

1) G. Nimmersjö, B. Hillström, O. Werner-Eichsen, G.D. Rockefeller, "A digitally-controlled, real-time, analog power-system simulator for closed-loop protective relying testing", IEEE Trans. Power Delivery, vol. 3, no.1, January 1988, pp. 138-152.
2) G. Nimmersjö, M. M. Saha, B. Hillström, "Experience with a modern real-time power system simulator", IEE Conference Publication Number 302, 1988.
3) G. Nimmersjö, B. Lundqvist, " Real-time simulator for testing of protection equipment, " Power Technology International, 1989, The International Review of Electrical Power Transmission and Distribution, pp. 111-115.
4) G. Nimmersjö, M. Saha, "A new approach to High Speed Relaying based on Transient Phenomena", IEE Conference Publication Number 302, 1988, pp. 135-145.
5) D-G. Hart, D. Novosel, M.M. Saha, G. Nimmersjö, "Digital techniques for testing numerical relays", Stockholm Power Tech, June 18-22, 1995, Information and Control Systems pp. 460-465.
6) Olivier Delsol, Lars-Göran Andersson, Gunnar Nimmersjö, "A simulator with batch-testing facility for relay testing" Proceedings Third International Conference on Digital Power System Simulation, May 25-28, Västerås Sweden.
7) F. Ciamous, G. Nimmersjö, T. Petersson, O, Huet, "Comparison of Transient Simulator Results in Some Typical Power System Study Cases", PSCC'99 13th POWER SYSTEMS COMPUTATION CONFERENCE TRONDHEIM, June 28 - July 2, 1999.
8) G. Nimmersjö, M.M. Saha, B. Hillström, "Protective Relay Testing Using a Modern Digital Real Time Simulator" presented at IEEE PES WM 2000, January 26, 2000, in Singapore.
9) G. Nimmersjö, M. M. Saha, L-G Andersson, J.C. Gaudio, "Distance Protection Application Test using a Real Time Digital Transient Network Analyser" to be presented at IEE Conference in Amsterdam, April 2001.

Landsbro April 7, 2011

Gunnar Nimmersjö