

## Mr. Navid Golbon (Vice Chairman of the board of directors & Shareholder)

### Contact Information

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### Education

**M.Sc.**, 1999 – 2002, [Electrical & Computer Engineering Department](#), [Isfahan University of Technology](#), Isfahan, Iran

- Electrical Engineering, (Power System), GPA=17.10 out of 20, Average GPA at Department is about: 16

**B.Sc.**, 1992 – 1997, Electrical and Computer Engineering Department, Isfahan University of Technology, Isfahan, Iran

### Objective & Interested Field

- Pursuing education toward Ph.D. Program.
- Specially interested in: 1-Power Quality 2- Power Electronics 3-Power System Protection 4-Electrical Vehicles”.
- Also interested in any other particular field of power systems and control systems.

### M.Sc. Thesis

- Feb. 2001 – Aug.2002, “Development of a New Algorithm for Adaptive Reclosing Relays”.

### B.Sc. Senior Project

- May. 1996 – Oct.1996, “Control of a Hydraulic Robot Arm by PC”.

### Professional Activities

- Reviewer, IEEE CCA Conference 2006.
- Co-founder of Behineh Niru Spadan Co. (<http://www.behiniehniru.com>), member of Directory Board.
- Mentored 6 undergraduate students during their internships in Behineh Niru Spadan (since 2003).

### Work experience

**Sep 2002 -Present**, Behineh Niru Spadan Co, Isfahan, Iran (Chosen Company by [Ministry of Industries and Mining](#) for Better Research and Development, Authenticated Company by [Ministry of Electrical Power](#) for Consulting Power Quality)

- Design and implementation of a Power Analyzer System for measuring and analyzing 3-phase parameters with logging, fault recording and event recording capabilities, using TMS320C25 DSP Microprocessor, Altera FPGA (EPFK10K) and 25000 lines of TMS Assembly program. (Active Energy Accuracy better than 0.5%, Reactive Energy Accuracy better than 1%)
- Design & Implementation of Portable and stationary Electrical Energy Meter Tester. (Especially for Electrical Power Distribution Organization)
- Enhancement of Electrical Power Consumption and Reactive Power Reduction of Arc Furnace in Navid Mangenez Co. (Using Impedance Control of Arc)
- Measuring Electrical & Power Quality Parameters Such as: Voltage and Current (RMS), Voltage Unbalances, Active & Reactive Power, Power Factor, Sag & Swell, Total Harmonic Distortion, Active & Reactive Power and Flicker for Isfahan Regional Electric Company and Khoozestan

Regional Electric Company.

- Installation of Power Analyzer (Product of Behineh Niru Spadan) in Fan Generator Co., Navid Mangenez Co, Mobarake Steel Complex, National Mazandaran Paper and Wood Co., Marjan Tile Co., Water Pumping of Isfahan, Mirco Plastic and Rubber Co. and ...)
- Automation of Production of Spadana Resin Factory containing, up to 20 Analog I/O & 120 Digital I/O.
- Loading Automation in Navid Mangenez Co.
- PC Simulation of Power System Quantities by Labview and Simulink.

**Sep. 2002- Jun. 2005**, Power System Expert, Design and Implementation of a New Load Frequency Controller of Iranian Power Network, Faculty of Engineering, Isfahan University.

- **2003- 2005**, Free Islamic Universities , Teaching the Electrical Basics II, High Voltage and Insulators, Basics of Electrical Circuits
- **1999-2002**, Electrical & Computer Engineering Department, Isfahan University of Technology, Isfahan, Iran
- Teaching Assistant in Digital Control Lab., Microprocessor Lab. & Measurement Lab.
- **Feb. 1997- March 1999** Part-time, Research & Manufacture Engineer, Pardisan Co., Isfahan, Iran.
- Simulation of Power System Quantities by Labview.
- Design of Monitoring Software for Fault Recorder System

#### Workshop experience

- Akhtar Bargh Company, Isfahan Regional Electric Company, Ministry of Power, Iran, “How to Test and Calibrate Power System Protection Equipments”.
- Central Area Operating Center, Isfahan Regional Electric Company, Ministry of Power, Iran, “Dispatching”

#### Special skills

Familiar with several electrical CAD tools such as MATLAB, SIMULINK, PSCAD, Labview, Pspice and Orcad.

#### Publications

- A. Khodabakhshian, H. Rahimirad, N. Golbon, “QFT Design for Load Frequency Control of Non-Minimum Phase Hydro Power Plant”, CCA 2006. (Under Review)
- A. Khodabakhshian, N. Golbon, “A New Robust PID Load Frequency Controller”, Control Engineering Practice Journal, December 2005. (with Editor)
- A. Khodabakhshian, N. Golbon, “Robust Load Frequency Controller Design for Hydro Power System” Proceeding of the 2005 IEEE Conference on Control Applications, pp. 1510-1515, Toronto, Canada, August 28-31, 2005.
- A. Khodabakhshian, N. Golbon, “Design of A New Load Frequency PID Controller Using QFT” Proceeding of the 13<sup>th</sup> Mediterranean Conference on Control and Automation, pp. 970-975, Limassol, Cyprus, June 27-29, 2005.
- A. Khodabakhshian, N. Golbon, “Unified PID Design for Load Frequency Control”, International Conference on Control Applications, pp. 1627-1632, Taipei, Taiwan, September. 2004
- M. E. Hamedani Golshan, N. Golbon “Detecting Secondary Arc Extinction Time by Analyzing Low Frequency Components of Faulted Phase Voltage or Sound Phase Current Waveform” Electrical Engineering, Springer-Verlag, Oct. 2004, Published Online.
- M. E. Hamedani Golshan, N. Golbon, “Investigating Variation Factors Impact on the Extinction Time of the Secondary Arc Transient Single Phase to Ground Faults” Journal of Faculty of Engineering, Tabriz University, Vol. 34, pp. 85-96, Iran , Spring 2004. (In Persian).
- M. E. Hamedani Golshan, N. Golbon, “A New Method for Determining The Extinction Time of The Secondary Arc of Transient Single Phase to Ground Faults” 11<sup>th</sup> ICEE, Vol. 4, pp. 129- 136, Shiraz University, Iran, May 2003

(In Persian)

- M. E. Hamedani Golshan, N. Golbon, "Implementation of Primary and Secondary Arcs Models of Transient Single Phase to Ground Faults in SIMULINK Software", 17<sup>th</sup> International Power System Conference, Oct 2002, Tehran, Iran (In Persian).
- N. Golbon, "Control of a Robot Arm by Labview Software", 1<sup>st</sup> Iranian Students Conference on Electrical Engineering, November 1998, Sharif University of Technology, Tehran, Iran (In Persian).

#### Relevant Course Works

**MS:** Relay and Protection II<sup>\*</sup>, Power Electronics, Fuzzy Control, Control of MIMO System, Reactive Power Control, Power System Dynamics<sup>\*</sup>, Electrical Vehicles,

**BS:** Digital Control<sup>\*</sup>, Microprocessors I<sup>\*</sup> + Lab., Microcomputer Lab., Pulse and Digital Circuits, Industrial Control<sup>\*</sup>, Modern Control

\* Course work with project

#### Personal

- Languages: Persian (Native), English (Fluent), Arabic (Basic)
- Interested in Cinema, Computer, Sports (Swimming, Exploration of Mountain, Cycling...)
- Health: Perfect

#### Last Updated

2006-03-28