

SAEED ROOSTAEE

September 1985

Address: SCADA & Substation Automation Labs, Electrical
Engineering Department, JMI, Delhi, India
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SUMMARY

Skilled engineering professional with a Ph.D. in Electrical Engineering and 5+ years of experience assembling, designing, programming, testing and repairing electrical equipment. Additional experience in troubleshooting computer hardware and electronic system using bench equipment with strengths in project management. Excel at collaborating across departments; coordinate with staff and managers to complete projects on time and within budget. Excellent interpersonal and communication abilities, and possess a wide range of technical skills. Enjoys being part of a team, as well as managing, motivating and training a productive team, and thrives in high pressure, unpredictable and hectic environments. Offering extensive knowledge in power system analysis, operation, protection, and control, focused on putting my research, university studies and knowledge to practical, applied use in power system engineering.

KEY ACHIEVEMENT

- Awarded Project Fellow by UGC, Government of India
- More than 20 technical publications in the area of Substation Automation System, IEC 61850, and protection system
- Knowledge-based websites developed for researchers, trainee engineers, industry personals and students (www.Elec-Engg.com and www.ProtectionRelay.ir)
- Editor in IJRST and IJSMR
- Two years teaching experiences in electrical engineering subjects
- Five years working in industrial automation, IEC 61850 and electrical system protection

WORK EXPERIENCE

Maad Group (SIEMENS Official Supplier), Tehran, Iran

Nov 2017 to Present

E-commerce Manager

- Online Technical support for Industrial
- Online Industrial Supply
- Expert in SIEMENS Automation (TIA Portal, SIMATIC S7-300, 400, 1200, 1500)
- Expert in SIEMENS Energy (SIPROTEC 4, SIPROTEC 5, Compact, Reyroll)

UGC SAP DRS-II "Power System Automation including Substation Automation, leading to Distribution Automation", Delhi, India

June 2016 to Nov 2017

Project Fellow

- Research in power system automation, specifically in substation automation, Power system protection, and smart grid
- Investigation and Design of Communication Requirements for Substation Automation System and Analysis of IEDs Data
- Research on protocol testing, and implementation of the IEC 61850 in the laboratory environment Training programs
- Substation Automation Design and Configuration using IEC 61850 Devices
- Setting up of the Transmission Line Fault Location Laboratory
- Workshops, Tutorials, and lectures

Zarin Saba, Shiraz, Iran

2009 to 2014

Application Engineer

- Planned, drafted, executed, maintained and improved electrical instruments, equipment, facilities, components and systems
- Fix the problems and connect wires to circuit breakers, transformers and other components within designated schedules
- Working knowledge of transmission and distribution protection and control schematic and wiring diagrams
- Controlled computer-aided engineering and designed equipment to perform engineering tasks
- Design experience in control and protection panel of substation equipment
- Testing & Troubleshooting of Electrical Enclosure
- Compact substation installation
- Attitude toward providing system solutions to customer problems
- Maintenance of Electrical Grid
- Maintenance of Industrial Equipment and Electronic Devices

PROFESSIONAL SKILLS

- Strong understanding and experience with Numerical relays, IED configuration tools, and IED Testing with CMC256-6
- Strong Analytical & complex problem Resolution, Hardware and Software Troubleshooting
- Working knowledge in the field of power system protection and high voltage apparatus

- Knowledge of power system substations, generation, transmission and distribution of electric power
- Strong communication and interpersonal skills
- Knowledge of a power system analysis software (PSCAD, MATLAB, DIgSILENT and ETAP)
- IEC61850 based engineering concepts and solutions to be applied in IED Configuration Tools
- Experience in Implementing or Engineering with Communication protocols like IEC 61850 and DNP3
- Professional Experience in:
 - ✓ Protection relay IEDs (SEL and SIPROTEC products)
 - ✓ Protection Relay test kit (OMICRON CMC-256)
 - ✓ IEC61850 tools (IEDScout, IEC61850 configurator, GOOSE Air, IEC 61850 process bus and Merging Unit)
 - ✓ Automation (TIA Portal, SIMATIC S7-200,S7-300, S7-400, S7-1200, S7-1500)
 - ✓ Microcontrollers (8051, AVR, PIC, FPGA)

ACADEMIC BACKGROUND

Ph.D. in Electrical Engineering, Electrical Engineering Department, Jamia Millia Islamia (www.jmi.ac.in), Delhi, India.

Thesis Topic: “Reliability and availability assessment of transmission line protection functions based on IEC 61850 standards”.

Supervisor: Prof. Mini S Thomas and Prof. Shabana Mehruz
Pre-Submission on 30 March 2017, **GPA:** 197/250 (79%)

2014-2017

M.Tech. in Electrical Engineering, Electrical Engineering Department, Islamic Azad University, Najafabad Branch (www.en.iaun.ac.ir), Najafabad, Isfahan, Iran.

Thesis Topic: “Implementation of Object Oriented modeling in the horizontal communications of Substation Automation System (GOOSE Applications) Using IEC 61850 standard”, **Grade:**19.5/20;

Supervisor: Prof. R. Hooshmand and Prof. M. Ataie
Overall GPA: 16.88/20 (84%)

2009-2011

B. Tech. in Electrical Engineering, Power and Water Industry, University of Applied Sciences and Technology, Shiraz, Iran.

Thesis Topic: “Distributed control system in substation automation system”, **Grade:** 19/20
Supervisor: Dr. Mehdi. Asadi
Overall GPA: 16.51/20 (83%)

2004-2008

TRAINING COURS UNDERTAKEN

	Course Name	Duration (Hours)	Year
1	Advances in Power Electronics & Renewable Energy Sources	15	2017
2	Recent Trends in Power System Reliability Evaluation: Models and Applications	15	2017
3	Power System Protection Testing with the OMICRON Test universe, Omicron Academy	40	2016
4	Control for Renewable Energy and Micro-grids, Grade A	17	2016
5	PLC and SCADA, IIT Delhi & CETPA	16	2016
6	Power Quality, IEEE workshop in IIT Delhi Section	8	2015
7	Labview, IEEE workshop in NSIT Delhi section	16	2015
8	Home Automation, REES52 in IIT Delhi	16	2015
9	Web Designing, REES52 in IIT Delhi	16	2015
10	Design of solar systems, Grade 90 of 100	175	2013
11	Smart home, Grade 86 of 100	50	2013
12	Design and analysis of AVR Microcontroller, Grade 96 of 100	272	2013
13	Design of Pneumatic controller, Grade 95 of 100	50	2013
14	Design and analysis of PIC Microcontroller, Grade 96 of 100	250	2013
15	Introduction to Fiber Optics, IRAFA Management & Industry Group	2	2013
16	Vehicle maintenance, Grade 76.5 of 100,	160	2012
17	Computer network	20	2011
18	Microcontrollers in Robotics, grade 93 of 100	122	2010
19	Robotic Hardware, A-rank, grade 96 of 100,	90	2010
20	Fundamentals of Robotics, grade 86.5 of 100,	136	2010
21	PLC Operator (1 st Rank), grade 71 of 100	186	2008

22	Design and analysis of Microcontroller circuits, 87 of 100,	350	2008
23	PLC Operator (2 nd Rank), grade 87.5 of 100	342	2007

SELECTED PUBLICATIONS

- 1 **Saeed Roostae**, Mini S. Thomas, and Shabana Mehruz. “*Experimental studies on impedance based fault location for long transmission lines.*” Protection and Control of Modern Power Systems 2.1 (2017) 2017
- 2 **Saeed Roostae**, Shabana Mehruz, Mini S Thomas, and Majid Jamil, “*Traveling-Waves-Based Ground Fault Location Using Zero-Sequence Detection and Wavelet Transform*” Journal of Electrical Engineering, Electronics, Control and Computer Science, 1(1), pp.7-12. 2017
- 3 **Saeed Roostae**, Shabana Mehruz, and Mini S Thomas, “*Reliability Comparison of Various Power Substation Automation based on IEC 61850*” International Journal Series in Engineering Science (IJSES)(ISSN: 2455-3328), pp.15-26. 2017
- 4 MA Aftab, **Saeed Roostae**, S. M. Suhail Hussain, Ikbali Ali, Mini S Thomas and Shabana Mehruz, “*Performance Evaluation of IEC 61850 GOOSE based distance protection for inter substation communication*”, IET Generation, Transmission & Distribution, Impact Factor: 2.213, SNIP: 1.479, SJR: 1.187 (Under review) 2017
- 5 **Saeed Roostae**, Mini S Thomas, and Shabana Mehruz, “*Practical Consideration of IEC61850 in Interlocking Functions in Substation Automation System*”, 11th INDIACOM; IEEE Conference ID: 40353, (BVICAM), New Delhi (INDIA), 2017 2017
- 6 **Saeed Roostae**, Shabana Mehruz, and Mini S Thomas,” *Research and Implementation of the Communication Topologies of Process Bus based on IEC 61850*”, IEEE Nanotechnology for Instrumentation and Measurement Workshop, IEEE NANOFIM 2017. 2017
- 7 **Saeed Roostae**, Shabana Mehruz, and Mini S Thomas” *Novel Line Protection Scheme based on the Remote IEC 61850 Sample Values in the Line*”, IEEE Nanotechnology for Instrumentation and Measurement Workshop, IEEE NANOFIM 2017. 2017
- 8 **Saeed Roostae**, Shabana Mehruz, and Mini S Thomas” *Experimental Study of Impedance based Fault Location in the Transmission Line using IEC 61850 Process Bus Data*”, IEEE Nanotechnology for Instrumentation and Measurement Workshop, IEEE NANOFIM 2017. 2017
- 9 **Saeed Roostae**, Shabana Mehruz, Mini S Thomas, “*Techno-economic assessment of IEC61850 based Substation Automation System*” International Symposium on Resistive Economy: Action and Implementation, New Delhi, 2017 2017
- 10 **Saeed Roostae**, “*Siemens Substation Automation System Part 2 of 3 -DIGSI software*”, E-book available on www.Elec-Engg.com 2017
- 11 **Saeed Roostae**, “*Siemens Substation Automation System Part 1 of 3*”, E-book available on www.Elec-Engg.com 2017
- 12 **Saeed Roostae**, Mini S Thomas, and Shabana Mehruz “*Laboratory Investigation of Fault Location in Transmission Lines*” Journal of Electrical Engineering, Electronics, Control and Computer Science 2.2 (2016). 2016
- 13 **Saeed Roostae**, Mini S Thomas, and Shabana Mehruz, “*Transmission Line Differential Protection Based on Microprocessor Relays*” International Journal Series, Archives of Electronics and Electrical Engineering, Vol.2, No.5, 2016, 14-26 2016
- 14 **Saeed Roostae**, Mini S Thomas, “*Automation Function in substation according to IEC 61850*”, National conference on electrical engineering 2015, Jamia Millia Islamia, eteee2015, Delhi 2015. 2015
- 15 **Saeed Roostae**, “*Automatic Voltage Regulation Using IEC 61850*” International Journal Series in Multidisciplinary Research (IJSRM), Volume 1, Issue 2, 2015 2015
- 16 **Saeed Roostae**, Rahmat Allah Hooshmand, Mohammad Ataei, “*Substation automation system using IEC 61850*”, The 5th International Power Engineering and Optimization Conf. (PEOCO2011), Shah Alam, Selangor, MALAYSIA, IEEE 2011. 2011
- 17 **Saeed Roostae**, Rahmat Allah Hooshmand, Mohammad Ataei, “*Substation optimization using IEC 61850 with Hard fiber in substation automation system*”, 7th International Conference on TPE (ICTPE-2011), Lefkosa, TR Northern Cyprus, 7-9 July 2011, Turkey. 2011
- 18 Mohammad Mehraban , **Saeed Roostae**, “*Substation automation system based IEC 61850*”, 7th International Conference on TPE (ICTPE-2011), Lefkosa, TR Northern Cyprus, 7-9 July 2011, Turkey 2011
- 19 **Saeed Roostae**, Rahmat Allah Hooshmand, Mohammad Ataei, “*Transformer tap changer using IEC 61850*”, 7th International Conference on TPE (ICTPE-2011), Lefkosa, TR Northern Cyprus, 7-9 July 2011, Turkey 2011
- 21 **Saeed Roostae**, Rahmat Allah Hooshmand, Mohammad Ataei, “*Distributed control system in substation automation system*”, National Conference on Electrical and computer engineering, May 2011, Neyriz, Iran (in Persian) 2011
- 22 **Saeed Roostae**, “*Substation automation system*”, 6th International Conference on Technical and Physical Problems of Power Engineering 14-16 September 2010. 2010

TEACHING EXPERIENCE

	Course	Location	Academic Year
1	Substation Automation / PLC & SCADA	Lecturer at JMI, Delhi, India	2016
2	Design of High Voltage Transmission Lines	Guest Faculty at IAUN, Neyriz branch, Iran	2010 - 2012
3	Linear control Lab	Lecturer at IAUN, Marvdasht branch, Iran	2011-2012
4	DC Machine	Lecturer at IAUN, Marvdasht branch, Iran	2011-2012
5	Logic circuits	Lecturer at IAUN, Marvdasht branch, Iran	2011-2012
6	Circuit Lab	Lecturer at Zand University, Shiraz, Iran	2011-2012
7	Hydraulic and Pneumatic Lab	Lecturer at IAUN, Shiraz branch, Iran	2011-2012
8	Electrical system	Lecturer at IAUN, Marvdasht branch, Iran	2011-2012
9	8051 Microcontrollers	Teacher Assistant at TVTO, Shiraz, Iran	2008

CORE STRENGTHS

Performance Test Simulation/Verification	Leadership/Supervision	Project/Budget Management
Equipment Installing/Testing/Turn-Up	Industrial Automation	Network Analysis
Troubleshooting/Repairing Problems	Industrial Electronics	Creative Talent
Problem Solving/Troubleshooting	Power Connections	IEC 61850
Training/Skills Development	Decision Making	TCP/IP
Technical Presentations	Microcontroller	PLC

LANGUAGE SKILL

1	Persian	Native
2	English	Very good
3	Arabic	Elementary
4	Hindi	Elementary
5	Urdu	Elementary

English Course:

	Course	Hours	Institute	Year
1	English Language - Level IV	600	International Centre, Pune University, www.unipune.ac.in	2012-2013
2	TOEFL	250	Iranian Academic Center for Education, Culture and Research (ACECR)	Oct-Dec, 2010
3	Pre- TOEFL	400	Iranian Academic Center for Education, Culture and Research (ACECR)	Feb-May, 2010
4	English Language (Level 1 to 10)	2000	Shiraz University of Medical Sciences, www.gsia.sums.ac.ir/en	2008-2010

ADDITIONAL SKILLS

- ❖ **General Software:** Auto CAD; Adobe Photoshop; CorelDRAW; Adobe Muse CC; Wolfram Mathematica; Office 2016; MS Visio; PSpice; SPSS; EndNote
- ❖ **Hardware:** Omicron CMC 256-6 Plus; SEL IEDs (SEL-421, SEL-451, SEL-2407), SIPROTEC IEDs (7SJ6, 7UT6, 7SA6), IEC61850 Process bus (Analog Merging Unit); Industrial Ethernet Switch (Magnum 6KL); Power Electronics, Switching Device & Converters & Protection Schemes; Oscilloscope; Electronic Circuits; Microcontroller and firmware (8051, AVR, PIC, Arduino, FPGA); Control System; Digital communication system
- ❖ **Programming:** Assembly; C/C++; VHDL; Verilog; HTML; XML (Create/Modify XRIO files for the relay testing)
- ❖ **Professional software:** DIGSI 4, DIGSI 5, Test Universe V3.20; ACSELERATOR QuickSet; TransView-OMICRON; IEDScout; GooseAir; Vizimax Commissioning Tool (IEC61850 Process bus software); IEC 61850 System Configurator; PSCAD; MATLAB; Proteus; Visual Studio; NI LabVIEW; AutoCAD Electrical; MiCOM S1 Agile; URsetup741; DIgSILENT; ETAP; SimPowerSystems; SIMATIC Step 7; Automation Studio; Code Vision AVR
- ❖ **Industrial Automation:** SCADA Systems; RTU Equipment; IEC-61850 and DNP protocols; HMI; PLC; Distributive Control; PLC LOGO
- ❖ **Hobbies:** Playing an instrument (Ney); Chess; Swimming; Running; Football; Ping Pong; Mountain climbing; Video production; Driving car; Riding bike; Cycling