

Suresh Kumar Gadi

An engineer with Doctorate in Automatic control with more than ten years of experience.

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Updated on June 2, 2015
by Suresh Kumar Gadi at Aguascalientes



Summary

Obtained Doctorate in Automatic Control in the month may of the year of 2014 by submitting the thesis "Modeling and control of a force augmenting device". I have over 10 years of working experience, which includes three months of teaching experience, four and half years of research experience and five and half years of industrial experience.

Career progress

Period		Education	Work
Till date		None	Research professor at UPA
2014	September		Doctor of Science
	May	Researcher at UMI-LAFMIA	
	April		
2009	September	None	Test engineer (Project trainee) at Honeywell
	July		
	May		
2008	September	Master of Technology	None
2007	July	None	
	June		
2006	June	Bachelor Degree	Field specialist in Schlumberger
2005	December		Site, billing, and planning Engineer at L&T
	November		
2003	June	None	
2002	July		Diploma EEE
	April		
1999	May		

Personal details

Nationality : Indian
Date of birth : 10th April 1984
Marital status : Married
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Education

Center for Research and Advanced Studies of the National Polytechnic Institute **Zacatenco, Mexico City**
Doctor of science *September 2009 — May 2014*

Degree: PhD in the specialization of Automatic Control

Thesis title: Model and control of a force augmenting device

Award: Received full research grant from Conacyt, Cinvestav-IPN and UMI-LAFMIA

Published work:

- ☞ *Gadi, S.K., Garrido, R., Lozano, R., and Osorio, A., "Stability Analysis for a Force Augmenting Device Considering Delays in the Human Model," American Society of Mechanical Engineers (ASME) 2013 International Mechanical Engineering Congress and Exposition, pp.V012T13A067, V012T13A067, 15-21 Nov. 2013 doi:10.1115/IMECE2013-63751*
- ☞ *Gadi, S.K., Lozano, R., Garrido, R., and Osorio, A., "Stability analysis and experiments for a force augmenting device," 2012 9th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE), pp.1,6, 26-28 Sept. 2012 doi:10.1109/ICEEE.2012.6421189*
- ☞ *Gadi, S.K., Osorio, A., and Lozano, R., "Study of the Interaction between a One Degree of Freedom Force Augmenting Device and a Human Operator ," The International Conference on System Theory, Control and Computing ICSTCC, 17-19 Oct. 2014*

VIT University **Vellore, India**
Master of technology *July 2007 — May 2009*

Degree: MTech in Sensor System Technology

Main project: Designing a factory floor tester for a heating ventilation and air conditioning (HVAC) controller and a remote monitoring unit (RMU)

Award: Obtained a merit award from VIT University for the year 2008 – 2009.

Mini projects:

- ☞ System identification by capturing real-time data
- ☞ Tilt measurement using micro-electromechanical systems (MEMS) accelerometer with LabVIEW
- ☞ Implementation of a transducer electronic data sheet (TEDS)
- ☞ Microcomputer based strain measurement

The Institution of Engineers (India) **Kolkata, India**
Associate Member (AMIE) *June 2003 — June 2006*

Degree: Got promoted from Graduate Member to Associate Member of the Electrical Engineering division. Passed Section-A and Section-B exams which are equivalent to BTech in Electrical Engineering.

Project: Erection of 66 KV double circuit (D/C) transmission line (TL) and its accessories

Achievement: Obtained an all India rank 1081 in the graduate aptitude test in engineering (GATE) conducted by the Indian Institute of Technology (IIT), Kharagpur in the month February 2006.

Government Polytechnic College
Diploma in electrical and electronics engineering

Visakhapatnam, India
May 1999 — April 2002

Degree: Diploma in electrical and electronics engineering (DEEE)

Project: Controlling the level of an overhead tank by using a 8085 microprocessor

Achievement: Got selected in the campus interviews conducted by Larsen & Toubro Limited - Engineering Construction & Contracts Division at Government Polytechnic College, Visakhapatnam.

Teaching and Research experience (4 years & 10 months)

Universidad Politécnica de Aguascalientes
Research Professor

Aguascalientes
September 2014 — Till date

Working as a full time research professor in the department of Automotive Mechanical Engineering.

Accomplishments:

- ☛ Taking up course on Electronics for the mechanical engineering students..
- ☛ Taking part in the designing a solar thermal power plant for the department of Engery.

UMI-LAFMIA
Researcher

Zacatenco, Mexico City
September 2009 — April 2014

Member of the team *Control of electromechanical system & water treatment, Control of dynamics systems.*

Accomplishments:

- ☛ Published two international conference papers. Drafted two articles and making final corrections for submitting to the international journals.
- ☛ Obtained full time research scholarship from Conacyt, Cinvestav-IPN and UMI-LAFMIA for a period of four years, three months and three months respectively.

Experience (5 years & 10 months)

Honeywell Technology Solutions Lab
Project trainee; 10 Months

Bangalore, India
September 2008 — July 2009

Member of a hardware testing team, which is responsible for verifying the specifications and obtaining the certifications for the electronic devices.

Accomplishments:

- ☛ Designed a factory floor tester (FFT) for an HVAC (heating, ventilation, and air conditioning) controller. The device under test (i.e. HVAC controller) is placed inside an FFT. The FFT needs to verify all the specifications of the HVAC controller, like digital & analog inputs & outputs, LEDs, resistance measurement etc. This is the final test done by the manufacturer before packing.
- ☛ Designed the software part of the FFT for an RMU (Remote monitoring unit).
- ☛ Tested many electronic devices for sending a feedback to the designing section and also performed tests to prepare the products to the standards of CE and FCC. These tests include testing the specifications, the temperature range, the humidity range, the mechanical shock range, the radiation immunity range etc.

Schlumberger*Field Specialist; 1 year & 7 months***Mumbai, India***December 2005 — June 2007*

A member of SWT (surface well test) team, which is responsible for collecting information about the oil wells at onshore and offshore sites.

Accomplishments:

- ☛ Obtained Schlumbers Xpert certification in SWT. SWT is a testing process of an oil well usually performed on an oil rig, which starts at flow head and runs all the way to burners. Since SWT crew is responsible for bringing the oil to the surface for the first time, the safety of the personnel, the oil-well and the equipment is of very high priority.
- ☛ Xpert certification includes a training on the selection of equipment for a given SWT project. Since offshore rigs are having limited space on deck, planning the right amount of the spares for immediate on-site maintenance is required to reduce the down time of the oil rig.
- ☛ Have experience in operating and maintaining the SWT equipment like flow-head, sand filter, choke manifold, heat exchanger, separator, surge tank, burner etc. Also, got trained in operating and maintaining pressure gauges, temperature gauges, and pressure recording devices of different models.
- ☛ Performed in house inspection for the SWT equipment.
- ☛ Worked with the SWT teams at many offshore and onshore including some HTHP (high temperature and high pressure) wells.

Larsen & Toubro Limited - ECC Division*Engineer (Electrical); 3 year & 5 months***New Delhi, India***July 2002 — November 2005*

Member of a construction team, which is responsible for managing construction work, billing and material management.

Accomplishments:**Construction of the 66 KV double circuit transmission lines at Bawana, Delhi**

- ☛ Supervised the complete site work and undertook the planning part of the site.
- ☛ Responsible for generating reports to the higher management like JCR (job cost report) and material reconciliation report etc.
- ☛ Handled the sub-contractor and client billing. Followed up client billing until the accountant receives the check from the client.
- ☛ Responsible for generating the reports tallying the work done (or the material supplied), the remaining work (or the remaining material to be supplied), the amendment required, the work billed for the sub-contract (the amount paid to the suppliers) and the invoiced work to the client (or the invoiced material to the client).
- ☛ Developed a software in FoxPro to reconcile the site data where the material consumed by sub-contractor was easily tracked. This software generates reports in a user friendly way (MS Excel and HTML), which was of great use since the software used by the company was lacking certain functionality to track the material based on the work done.
- ☛ Developed another software to generate a stringing chart based on a statistical analysis performed over the data received from the R&D department.

Railway electrification project from Ludhiana to Amritsar at Punjab

- ☛ Along with a senior staff supervised foundation and erection of masts, stringing of catenary and contact conductor, erection of ATD (auto tension device) and other accessories.

Construction of the 132 KV double circuit transmission lines at Jodhpur, Rajasthan

- ☛ Along with a senior staff supervised foundation, erection and stringing of the transmission line tower. The site work also includes handling client visits at the site.
- ☛ Responsible for maintaining the material consumption reports and tallying with the store records.

Language skills

Reading & Writing: Hindi (3*), English (3.5*) and Spanish (2*)

Speaking & Listening: Telugu (5*), Hindi (5*), English (4.5*) and Spanish (3.5*)

* Indicates the competency level on a 0-5 scale

Computer skills

Operating system: Windows (3*), Linux (2*)

Programming language: Basic (2*), C/C++ (4*), VC++ (2*), MATLAB (4*), LabVIEW (3*)

Software package: FoxPro (3*), PL/SQL (1*), MySQL (3*), SQLite (3*), MS Office (3*), LaTeX (3*)

Electronics Related software: MultiSIM (4*), μ Vision (3*), MPLAB (3*)

Server-side scripting: PHP (3*)

Client-side scripting: HTML (3*), JavaScript (3*)

* Indicates the competency level on a 0-5 scale

Soft skills

Attention to Detail: Allows to produce quality work with consistent results.

Flexible: Gives a chance to work in a completely new field.

Interpersonal Skills: Makes it possible to be a key member connecting all the other members in the team positively.