CURRICULUM VITAE

P.BHARAT KUMAR
ANANTHAPURAMU

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CAREER OBJECTIVE:

To work in a globally competitive environment on challenging assignments that keeps in touch with latest technologies. And to work in the Organization where there is an ample scope for individual as well as Organization's growth and development.

ACADEMIC QUALIFICATION:

- **Ph.D.** in **Electrical Engineering (Control Systems)** from **JNTUA** during 2011-2017.
- **M. Tech** in **Control Systems** from **JNTUA CEA** with aggregate **79.85%** during 2007-2009.
- **B. Tech** in **Instrumentation and Control Engineering** from JNTU (SKTRMCE) with aggregate **72.89%** during 2003-2007.
- **Intermediate (M.P.C)** from Board of Intermediate Education with aggregate **83.70%** during 2001-2003.
- **S.S.C** from Board of Secondary Education with aggregate **78.00%** during 1999-2000.

SOFTWARE SKILLS:

- **Programming languages** : C, C++
- **Operating systems** : Windows 98 , XP and DOS
- **Applications** : MS-OFFICE
- **Software tools** **:** MATLAB, Scilab, PLC

WORK EXPERIENCE:

- Working as Assistant Professor (Adhoc) in EEE Dept., JNTUA College of Engineering, Ananthapuramu from September, 2008 to till date.

SUBJECTS TAUGHT:

- Control Systems
- Non-Linear Control Theory
- Neural Networks & Fuzzy Logic
- Intelligent Control
- Digital Control Systems
- Estimation of Signals and Systems
- Advanced Digital Signal Processing
- Modern Control Theory
- Instrumentation
- Advanced Control Systems

Workshops /Seminars/FDPs Attended:

1) Two day faculty development program on "Embedded Systems and Technology" during 29-30th December, 2008 conducted by JNTUA CEA and Honeywell Technologies.
2) Two day National workshop on "Neural Networks and Fuzzy Systems" during 30-31st March, 2009 conducted by Department of EEE and Mathematics, JNTUA CEA.
3) One day workshop on "Smart Grid" organised by Department of EEE, JNTUA CEA on 06th January, 2012.
4) Presented a Paper on "Design of Different Control strategies for a Digital excitation Control Systems" at the International conference: ICEEE at Bangalore on 4th November, 2012.
5) One day workshop on "Technology Enhanced Learning through IEEE for imparting Quality Higher Education" on 19th April, 2014 at JNTUA CEA.
6) One day workshop on "Human values and Professional Ethics (Engineering Inner Excellence)" on 5th July, 2014 at JNTUA CEA.
7) DST sponsored one day Technology awareness workshop on "Induction Motor Efficiency Monitoring System" on 28th November, 2014 at CSIR, Chennai.
8) One day Faculty Development Programme on "Agile Methodologies" on 25th February, 2015 at JNTUA CEA.
9) One day National level workshop sponsored by UGC on "Training program for NBA criteria and Accreditation Process" on 3rd March, 2015 at JNTUA CEA.
10) Two days Faculty Development Programme on "Programming in C & Data Structures" at JNTUA CEA during 25-26th March, 2015.
11) Two weeks Faculty Development Programme on "Entrepreneurship" at JNTUA CEA during 06-18th July, 2015.
12) One day workshop on "Awareness on IT/ITES job roles & big data analytics" at JNTUA CEA on 20th August, 2015.
13) One day PRDC workshop on "Awareness on Power Systems Simulation Analysis using Mi Power software" at JNTUA CEA on 22nd September, 2015.
14) One day workshop on "Cyber Security" at JNTUA CEA on 8th October, 2015.

15) Orientation on "MATLAB, Simulink & Related tool boxes for Engineering Education" by Capricot Technologies Pvt. Ltd., at JNTUA CEA on 07th October, 2015.
16) Two days DST sponsored National level workshop on "Application of Soft Computing Techniques in Engineering Sciences" at Guntur Engineering College, Guntur during 30-31st January, 2016.

Research Publications:

1. P. Bharat Kumar, P. Sujatha and K.S.R. Anjaneyulu, "Design and Analysis of different control strategies for BLDC Motor", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 2, Issue 9, September, 2013.
2. P. Bharat Kumar, P. Sujatha, "QFT based multi area Load Frequency Controller Design for multi area Power System", International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol.5, Issue 6, June, 2017.
3. V. Jyothi and P. Bharat Kumar, "Tuning Controller parameters and Load Frequency Control of Multi area multi source Power system by Particle Swarm Optimization technique", International Research Journal of Engineering and Technology, Vol.2, Issue. 8, November, 2015.
4. K.Naresh, P. Bharat Kumar and K.S.R. Anjaneyulu, "Simulation of Energy Recycling Technique for an Electric Scooter using MATLAB/Simulink Environment, International Research Journal of Engineering and Technology, Vol.2, Issue. 6, September, 2015.
5. V. Naveen and P. Bharat Kumar, "Fuzzy and Adaptive Control strategies of Voltage Source Converter for Correction of Power factor", International Research Journal of Engineering and Technology, Vol.2, Issue. 6, September, 2015.
6. P. Bharat Kumar, P. Sujatha "Robust QFT controller design for Aircraft Pitch angle Control", IJER, June, 2017.
7. M. Dilip Kumar, P. Bharat Kumar, P. Sujatha, "A study on Low Frequency oscillation, FACTS, and Self Tuning Controllers", i-manager's Journal on Instrumentation and Control Engineering, Vol.5, No.1, Nov,2016-Jan,2017, pp.31-39.
8. Mulinti Raju, P. Bharat Kumar, R. Kiranmayi, "Robust-Fractional order PID Controller design using GA for a Fractional order system", International Journal of Pure and Applied Mathematics, Vol.114, No.7, 2017, pp.153-163. (SCI)
9. V. Lakshmi Devi, P. Bharat Kumar, P. Sujatha, "A Hybrid BAT-GA Optimisation of Security Constrained Unit Commitment Problem for 10-unit system", IJCTA, 2017, pp.823-830. (SCI)
10. V. Lakshmi Devi, P. Bharat Kumar, P. Sujatha, "A new Hybrid BAT search algorithm for solving constrained unit commitment problem using 3-unit system", Journal of Advanced Research in Dynamical and Control Systems, Issue.13, 2017, pp.236-245. (SCI)
11. C. Sudhakar, P. Bharat Kumar, "ANFIS approach based on MPPT for Multi-intersection Solar Cell PV Energy systems", Journal of Advanced Research in Dynamical and Control Systems, Vol.9, Issue.14, 2017, pp.1349-1362. (SCI)

12. Narendra, P. Bharat Kumar, "Fractional order PID controller design using Genetic Algorithm for Fractional order system", Journal of Advanced Research in Dynamical and Control Systems, Vol.9, Issue.14, 2017, pp.1484-1496. (SCI)
13. M.S.G.Smitha, P.V.Satyaramesh, P.Sujatha, P. Bharat Kumar, "A Novel method for allocation of transmission cost in a multiple transaction framework", International Journal of Applied Engineering Research, Vol. 12, No. 20, 2017, pp.9674-9678. (SCI)
14. D. Himabindu and P. Bharat Kumar, "Design and Analysis of Nonlinear Fuzzy Logic based Predictive Controller for Grid tied Photovoltaic Inverter", Proceedings of the International Conference on Intelligent Computing and Sustainable System (ICICSS 2018), IEEE, ISBN: 978-1-5386-4344-0, pp.30-35, 2018.
15. K. Ramesh and P. Bharat Kumar, "A Nonlinear Controller design for Variable Speed Wind Turbines using ANFIS", Proceedings of the International Conference on Communication and Electronics Systems (ICCES 2018), IEEE, ISBN: 978-1-5386-4764-6, pp.642-647, 2018.
16. Syed Suraya, P. Sujatha, P. Bharat Kumar, "A Novel Control strategy for compensation of Voltage Quality problem in AC Drives", International Journal of Power Electronics and Drive System (IJPEDS), Vol. 9, No. 1, pp.8-16, March, 2018.
17. Syed Suraya, P. Sujatha, P. Bharat Kumar, " A Novel Control strategy based Dynamic Voltage Restorer for Compensation of Voltage Harmonics in Distribution system", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 7, No. 2, pp. 338-347, August, 2017.
18. Y. Bharathi Devi, P. Bharat Kumar, P. Sujatha, "Control of variable speed variable pitch wind turbines using MPC and QFT", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Elsevier, Vol. 8, Issue. 12, Pg. No. 4712-4717, October, 2019.

- **No. of M. Tech Projects Guided:** 20
- **No. of B. Tech Projects Guided:** 06

Project Work :

Ph.D: QFT based controller design of SISO and MIMO systems using Intelligent Techniques

M.Tech: Title: "Design of PI and PID controllers using Transient performance Specifications and Intelligent Techniques for dynamical systems."

B.Tech: Title: "Bio-medical Transmission and Monitoring using Embedded Systems."

Administrative Works Supported:

- NBA work for the department of EEE and College in the years 2013, 2015 and 2019.
- NAAC work for JNTUA in the year 2017 & Coordinator, 2019.
- NIRF ranking framework for past three years.
- Board of Studies for both the College and University level.
- Preparation of course content for various Control System domain subjects.
- Preparation of various Research proposals for AICTE, UGC, BRNS, etc.
- Observer for various National level and State level examinations.
- Development of Control Systems and DSP Laboratories in the department.

PERSONAL PROFILE:

Name	: P. Bharat Kumar.
Father Name	: P. Malayadri Chowdary.
Date of Birth	: 04-06-1985
Marital Status	: Married
Languages Known	: English, Hindi and Telugu
Permanent Address	: P. Bharat Kumar H. No. 3-20, LIC Colony Opp. To JNTUA Ananthapuramu, A.P. - 515002

DECLARATION

I hereby declare that above said information is true to the best of my knowledge. Thanking you,

Date: 10-01-2020 Signature

Place: Ananthapuramu (P.BHARAT KUMAR)