

RESUME

Name: BHESANIYA MUKESHKUMAR MOHANBHAI

Local Address:

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Date of Birth: 18th September, 1979

Sex: Male

Marital status: Married

Nationality: Indian

Educational Qualification:

- Masters in Electrical Engineering with specialization in Power & Control from Indian Institute of Technology, Kanpur, India, 2009.
- Bachelors in Electrical Engineering from Sardar Patel University, Vallabh Vidyanagar, Gujarat, India, 2000.

Honors and Achievements:

- **"Academic Excellence Award"** for the best academic performance in year 2007-08 during masters in Electrical Engineering from Indian Institute of Technology, Kanpur.
- Selected for **"SAARC-IAESTE Academic Internship Programme"** at Keio University, Japan, for one month. I was among the 12 students selected from different IITs across India.
- I have a certification from Microchip Technology Inc, USA, to train professionals and students on microchip products. I am the first to get this kind of recognition from Microchip in Gujarat.

Work Experience:

- Lecturer (Since Sep-2003): G. H. Patel College of Engineering & Technology, Vallabh Vidyanagar, Gujarat, India.
- Junior Engineer – R&D (May-2002 to Aug-2003): Baroda Electric Meters Ltd., V. U. Nagar, Gujarat, India.
- Junior App. Engineer (May 2001 to April 2002): Gujarat Electricity Board, TPS, Dhuvaran, Gujarat, India.

- Trainee Engineer – R&D (Aug 2000 to April 2001): Baroda Electric Meters Ltd., V. U. Nagar, Gujarat, India.

Research Interest:

- Real time applications in Power system and Power Electronics using microcontrollers and Digital Signal Processors.

Software Skills:

- C, C++, Assembly language, Windows.

Publications:

- "Carbon Trading Incorporated Economic Dispatch Operation of Power system", in IEEE Transactions on Power System, Under Review.
- "Dynamic approach for Energy Improvement and Emission Reduction in Indian Power sector" at the 3rd International Conference on Sustainable energy and Environment (SEE 2009), Bangkok, Thailand, May 2009.
- "Design of PIC 16f676 based Charger Controller as per MNES Standards" at the national seminar on Embedded Systems and Emerging Trends, IETE, Vadodara.
- Article published on "Apparent Energy Measurement" in the Times of India in August 2002.

Industrial Consultancy:

- Training conducted on "PLC applications in Automations" for Engineers from AMUL.
- Designed "Protecting & Measuring Instrument" for Atlant Electricals Ltd., V. U. Nagar.
- Designed an embedded system for "Temperature control of a Furnace" for Nidhee Electronics, V. V. Nagar.

Short Term Training attended:

- "Testing of Single Phase Energy Meters as per I.S." during January 1999 at BVM Engineering College, V. V. Nagar.
- "AI and Soft Computing" during 3rd July to 7th July 2006 at G H Patel College of Engineering & Technology, V. V. Nagar.

Workshop attended:

- "Utilization of Educational Standards" organized by Bureau of Indian Standard on 20-21 January, 2005.
- "Embedded system design using PIC microcontroller" organized by ISTE chapter, Charotar Institute of Technology on 08-09 March, 2006.
- "Vedic Mathematics" organized by ISTE chapter, A D Patel Institute of Technology on 17th April, 2006.
- "Research Methodology in Engineering Education" organized by G H Patel college of engineering & technology on 22nd April, 2006.
- "Intellectual Property Rights Sensitization Programme" conducted by Federation of Indian Chambers of Commerce and Industry and Intellectual Property Office on 22nd January, 2009.

Training organized:

- PLC applications in IMAZE-2003 at GCET.
- PLC applications for automation for engineers from AMUL.
- PLC applications in IMAZE-2006 at ADIT

Major Projects Guided:

- Microcontroller based 3-phase Induction motor protection.
- Automatic Vending Machine.
- Microcontroller based micro stepping of Stepper motor.
- Laser based Diamond cutting machine.
- Automatic Pouring Technique.
- Microcontroller based Temperature Control and Display.
- Design of O/C relay using PIC Microcontroller.
- Temperature Control using PIC Microcontroller.
- Control of NIB distance with high accuracy.
- Elevator control using PLC.

Laboratories Developed at GCET:

- PLC lab with introduction of some new experiments.
- Fundamentals of Microprocessor.
- Microprocessors applications to electrical system.
- Modern control systems with introduction of some new experiments.