

Abrar Ahmed

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Objective

To be associated with organization so as to realize my potential for growth in a competitive and professional environment and share my skill and knowledge.

Career Summary

- An innovative and knowledgeable professional.
 - Excellent in providing the real time practical knowledge about technology.
 - High multitasking ability to balance teaching and administrative duties
 - Ability to generate effective teaching by making use of various methodologies
 - Possess excellent written and verbal communication skills
 - Providing a guidance to the students for developing their career as well as making them familiar with different career opportunities.
 - Ability to carry out tasks with minimal supervision with positive attitude
 - Outstanding proficiency in MS Office including PowerPoint Access Word and Excel
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Experience

ASSISTANT PROFESSOR | TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY | AUGUST, 2015 TO TILL NOW

- Taught three undergraduate engineering course per semester
 - Provided individual mentoring and advice to students as required
 - Assisted in drafting and updating engineering program curriculum requirements and guidelines
 - Developed Ball & Beam system for control system studies with real time control application
 - Developed and implemented learning-outcome program assessment plans
 - Team member in installation advanced control system product by GoogolTech (Inverted pendulum, Ball and beam, 3DOF helicopter) at Gautam Buddha University, Noida and MANIT, Bhopal.
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Skills & Abilities

SOFTWARE SKILLS

Matlab, Arduino IDE, Multisim, Proteus Design Suit, EasyEDA, Protel 99SE, Multisim, Energia IDE and PCB Wiza

TECHNICAL SKILLS

- Soft Computing Simulations
 - IoT's systems Design for smart Solutions.
 - New system development for advancement of laboratories
 - Microcontroller
 - Analog Circuit Design
 - Real time control from Matlab Simulink
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Technical Certification

C & C++ | VIDHYA INSTITUTE OF TECHNOLOGY, UDAIPUR

C# | SEED INFOTECH LTD, PUNE

Training

CT & VT Testing Jig

Company: Secure Meters Limited, Kaladwas, Udaipur

Duration: August, 2011 – October, 2012

Role: Design, Development & testing

Contribution: Made testing jig

Description: The developed CT & VT testing jig use to test new manufactured CT & VT. It provides operator a simple indication when CT & VT pass the test case. Simple design, cost effective, reliable and time saving so increases production.

CCA Testing Jig

Company: Secure Meters Limited, Kaladwas, Udaipur

Duration: June, 2011 – June, 2012

Role: Testing & QA

Contribution: Made test plan and validate the BON

Description: To validate, the developed BON is tested with CCA for test cases provided by R & D department. BON inspection like wiring diagram validation, aesthetic check, test point check, quality assurance. Documentation to validate BON.

Regulated Power Supply Design

Company: Secure Meters Limited, Kaladwas, Udaipur

Duration: June, 2011 – June, 2012

Role: Design & Development

Contribution: Made power supplies for testing Jigs

Description: Develop different voltage level like positive 5V, 9V, 12V and negative 5V, 9V, 12V regulated power supply using 78xx & 79xx series regulator ICs. Also made

variable regulator supply using LM317 variable regulator IC.

Energy Meter Production Process & Test Facility Design

Company: Secure Meters Limited, Kaladwas, Udaipur

Duration: June, 2011 – June, 2012

Role: Industrial exposure

Description: Learn complete production process of energy meter starting from firmware burning, component placement, production line, component placement guide, CCA testing & packaging.

Project Work

M.Tech

Design and Development of fuzzy logic controller for induction motor drive

B.Tech

Over voltage and under voltage protection of home appliances

Others:

- Home Automation System using android smartphone.
- Three wheel robot control using android smart phone.

- Temperature controller
- Escalator system
- Motion tilt lock system
- IoT based sound and air pollution monitoring system
- IoT based temperature humidity monitoring system
- Real time power monitoring system
- Stepper motor control
- Home Automation System using android smartphone.

Training Imparted

Power Electronics Converters analysis using MATLAB

Duration: 4 week

Place: Techno India NJR Institute of Technology, Udaipur

Description: This training includes sim power system toolbox to model AC-DC, DC-DC, DC-AC and AC-AC converters. PWM generation using unipolar and bipolar switching scheme. Harmonics analysis. Closed loop DC-DC converter simulation. Modeling of AC and DC drive systems.

Control system using MATLAB

Duration: 2 week

Place: Techno India NJR Institute of Technology, Udaipur

Description: This training includes control system toolbox to do frequency response analysis, root locus

analysis, steady state analysis, state space analysis, feedback control system design and modeling, compensator designing using SISO tool, PID tuner for tuning PID controller.

Arduino UNO R3 Board

Duration: 2 week

Place: Techno India NJR Institute of Technology, Udaipur

Description: To make close loop control system using Arduino UNO R3. Interfacing of sensors like PIR Motion sensor, Touch sensor, Vibration sensor, LDR, Touch sensor, Temperature sensor with Arduino. Controlling small power and high power devices using Arduino.

Projects: Smart car, Temperature monitoring and control, Home automation

Workshop/Seminar and Conference Attended

- “National workshop on Distributed Generation and Restructuring of Power Systems.” Sponsored by CSIR during 30th -31st Aug 2013 at CTAE, Udaipur - Challenges and Opportunities in Distributed Energy Resources (DERs), Grid integration issues for Renewable Energy Sources (RES).
- Two days short term training programme on “Technical Writing and its Optimization (TWO-2014)” Sponsored by TEQIP Phase-II during 30th-31st Jan, 2014 at CTAE, Udaipur – Introduction to technical writing, challenges, time management & plagiarism issues in technical writing.
- “Science & Technology EXPO-2010: National Exhibition & Business Summit, 3rd Destination” CSI Udaipur Chapter, during 14th-16th Dec, 2010 at Udaipur, Rajasthan - demonstrated a low-cost "Prototype Robot" for pro-disaster management which can overcome the budget-constraints as well as fully capable of rescue purposes for incident management.
- Workshop on “Robotics” conducted by Robosapeins at TINJRIT, Udaipur – assemble line follower and obstacle avoider robot controlled by ATMEGA32.
- “National workshop on Fundamentals of PSCAD and DSA Tools Applications”, TINJRIT, Udaipur

Publications and Manuals

- Abrar Ahmed, “Intelligent Controller for Vector Controlled Induction Motor using MATLAB,” in 2nd National conference on innovation in electrical engineering at Madhav Institute of Technology and Science, Gwalior, during 8-9 March 2013.
- Abrar Ahmed, “Performance of Induction Motor Drive using Fuzzy Logic Controller,” in National Conference on Automation and Control at AITS, Udaipur.
- Advance MATLAB Programming and Simulink Manual

Extra-Curricular Achievements

- Cash Award for contribution to academic's development
- Organized various competitions being at the Event Manager of ISTE
 - Model Making Competition
 - Quiz Competition "Chakravyuh"
- Organized a cultural-technical-literary event "Techvyom-2010" at TINJRIT, Udaipur
- Second prize in Gaming at "Techvyom-2010" TINJRIT Udaipur
- Third prize in "Best out of waste" in "Techvyom-10" at TINJRIT, Udaipur

Education

COURSE	INSTITUTE/COLLEGE	SPECIALIZATION	UNIVERSITY /BOARD	YEAR	PERCENTAGE /GRADE
M.Tech	College of Technology and Agriculture Engineering, Udaipur	Power Electronics	MPUAT, Udaipur	2015	7.71
B.Tech	Techno India NJR Institute of Technology, Udaipur	Electrical and Electronics	RTU, Kota	2012	69 %
HSC	Vidhya Bhawan Sen Sec School, Udaipur	PCM	RBSE	2008	70 %
SC	Alok Sen Sec School, Udaipur	General	RBSE	2006	80 %

Personal Detail

Father's Name : Mr. Allah Bux Chhipa

Address : 194/3rd Type Government Quarter, O.T.C. scheme, Mullatalai, Udaipur, Rajasthan 313001

Date of Birth : 13th June, 1990

Nationality : Indian

Hobbies : Reading articles and papers, new gadgets, photography, cooking

Languages known : English | Hindi | Urdu | Regional

Declaration

I hereby declare that the information furnished above is true to best of my knowledge and belief.

Place: Udaipur, Rajasthan