

ER. PANKAJ YADAV



M.I.E ,C.Eng, P.Eng(I), Mem. (I.A.Eng), Govt. Cert. Engineer. Pro. CL-I

BASIC INFORMATION

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OBJECTIVE

To become an elite leader of science and technology by serving the organizations with my dynamic,timely upgraded skills and updated knowledge of engineering, science, technology and management along with the information of latest market trends and demands.

EMPLOYER'S

CURRENT EMPLOYER:

- FREELANCER/INDEPENDENT

PREVIOUS EMPLOYER:

- TATA POWER DELHI DISTRIBUTION LIMITED
- ASPIRING MINDS

WORK EXPERIENCE

Chief Project Officer(CPO)/Chief Technical Officer(CTO) cum Engineering Consultant

December 2020 - Present

Freelancer/Independent

Job Description:

- To take charge of the entire Eng. & Tech. dimension of the global institution & businesses etc.
- To take key decisions and propagate them in the lower hierarchy including guiding GMs, SMs,etc.
- To Acquire,Plan,Manage,execute and deliver the project in the stipulated time.
- To develop key technology as per the clients demands against international benchmarks and standards.
- Focus on achieving strategic business objectives through projects, programs and portfolio.
- Ensure key projects and programs support the right business goals.
- Balance risks with rewards along with proper ethics.
- Link projects with the business strategy.
- Drive efficiencies and linkages between projects.
- Manage resource requirements across the portfolio of projects.
- Make sure each project has an effective leader/project manager.
- Implement or oversee appropriate project management methodology.
- Oversee and control all changes to project scope.
- Strive toward achieving execution excellence.
- To look for appropriate process of intellectual property.
- To coordinate with business associates for prototyping demand.

- To issue validation of all the technical documents with C.Eng,P.Eng. etc license and rights for global work.

Sr.Project Manager(R&D)

November 2018 - December 2020

Freelancer

Job Description:

- Managing project(s) for medium to large project teams which require significant cross-functional involvement.
- Serving as expert to the project team on overall "Product Development Process" (including Design Controls).
- Development and oversight of project Charter, Development Plan, and Contract. Accountable for team's compliance to project plans and commitments as well as appropriate change management, as necessary.
- Developing and managing project plans, including scheduling, resourcing, budgeting, and communication, to Product Development Leadership and Senior Leadership.
- Ensuring team adherence to project plans as well as maintaining project dashboards and action and decision registers.
- Providing daily direction and guidance to team members in the execution of the project.
- Leading team to manage external resources in the execution of an NPI project (i.e. managing critical external relationships for testing, development, attaining components / sub assemblies, etc.).
- To proactively communicate to functional management and Product Development leadership as well as escalating cross-functional support issues.
- To apply ethical practices within project team and incorporates company innovation excellence and process improvements into project execution.
- To actively evaluate project for opportunities to improve performance; continuously monitoring risks and mitigations.
- To Ensure team members adhere to internal procedures and regulatory requirements.
- Providing guidance and coaching/mentoring to team members as appropriate.
- To build key relationships with stakeholders and customers related to the projects.

Project Manager(R&D)

September 2017 - November 2018

Freelancer

Job Description:

- To Manage and execute the project in the stipulated time.
- To Formulate,Design and Prototype Modelling of the projects.
- To Design the AutoCAD and S.L.D designs based upon client requirement and standards.
- To Provide best solution to the client regarding their projects based upon latest technology.
- To Make prototype of the designs and real world testing for best output from prototype.
- To Manage client needs, vendors and deliverables according to client goals.
- To Update client on significant updates regarding their project and ensure client satisfaction.
- To Ensure consultation in the solutions requested by the client are compliant by the international standards (IEEE,EU, ISO,CEA,ANSI,IEC,BIS etc.).
- To administer, manage, plan and execute the entire projects on the sole basis.

Asst.Manager

March 2017 - September 2017

AspiringMinds

Job Description:

- To manage, maintain and deepen Key client relationships, ensure highest level of customer satisfaction.
- To understand and service client's requirements, be the face of the company to the Top-notch corporates.
- To prepare reports of data for analysis and formulation of decisions.
- To based on data analysis, work out new strategies to reach out to clients and ensure best results.
- To maintain proper communication and coordination with internal teams and clients to manage accounts.
- To prepare weekly MIS for client and internal management.
- To regular dispatch of emails and SMS to candidates according to business requirements.
- To ensure overall technical operation satisfaction to the client.
- To manage the events for the client for the particular drives at any PAN india locations.

Trainee

June 2015 - July 2016

Tata Power Delhi Distribution Ltd.

Job Description:

- To manage, maintain 33 KV & 11KVS/S and lines & above complete operation & maintenance with breakdown & RMU handling with DMS etc.

- To perform zonal domestic, commercial & industrial load on GSS complete operations & transactions handling & management.
- To perform Switchgears, isolators, circuit breakers, transformers with control panel operation & maintenance management.
- To perform periodical Operation management & manpower management of the business unit.
- To perform all LT/HT parts (IPC, lugs, insulation, LT/HT poles, 2x15, 2x25, 4x150, 3x300 etc. sq.mm conductors, Tyco box, busbars, UG/OG fault kit etc.) and equipment's complete handling with safety guidelines.
- To perform design, planning and execution of planned and unplanned shutdown operations with ensuring.
- To perform Overground & Underground fault detection, identification and Mitigation.
- To perform Govt. and legal orders of unauthorized construction notices operation handling.
- To perform smart Metering & prepaid Meter charging, tampering and electrical theft raids & issues leading, handling and resolving.
- To perform zonal Street lighting and consumer supply related complaints handling & management.
- To perform complete project management and handling of new installations and customizations in zones.
- To perform HT/LT conductor maintenance with annual transformers operation and maintenance.
- To comply IE, CEA, CERC, DERC etc. rules and safety regulations based practical & operational compliance handling.
- To perform geographical zonal business unit based complete inventory, supply chain and material management with zero deficiency.
- To perform rooftop Solar panel installation, control and operation management handling using SCADA.
- To perform SAP based business units and GSS transactions handling with CENNET coordination etc.
- To do attending & taking part in meeting and conferences of circle, district, town etc.
- To perform Energy audit reporting and annual inspection reporting ordered by government.
- To perform Consumer grievances, Govt. projects & affairs & zonal incident management.
- To perform Determination, execution of complete onsite prompt technical solution of situations unprepared.
- To perform Ensuring complete and continuous supply to domestic, commercial, industrial consumers etc. 24x7 of two geographical zones in south east district.

EDUCATION

AMCAT

AMCAT Assessment Exam

Certified for employment for jobs in the following sectors:-

- Engineering Jobs.
- Technical Operations.
- Business Analyst\Managerial & Operational Roles.
- Research and Development jobs.
- Administrative Roles.

ELitmus

eLitmus Assessment Exam

PH score :

- PROBLEM SOLVING : 80 percentile
- VERBAL ABILITY: 90 percentile

Bachelor of Technology(Electrical Engineering(Hons.))

Rajasthan Technical University ,Kota

Semester-wise Percentage:-

- I semester with 69.9% marks
- II semester with 70.4% marks
- III semester with 71.8% marks
- IV semester with 74.4% marks
- V semester with 71.9% marks
- VI semester with 71.0% marks
- VII semester with 71.5%marks

- VIII semester with 76.0% marks
- Total Aggregate marks of Degree:72.11% (CGPA :- 7.9)with Hons.Division

Sr.Secondary Education(10th + 2)

Kendriya Vidyalaya AFS Avadi,Chennai (C.B.S.E.)

- Subjects :- PCM with Computer Science
- Aggregate percentage:- 63.4%(CGPA :- 6.67)

Secondary Education(10th)

Kendriya Vidyalaya AFS,Avadi,Chennai (C.B.S.E.)

- Subjects :- PCM with General Studies
- Aggregate percentage:- 77.4%(CGPA :- 8.1)

INTERESTS

- Power System Designing, Modelling & Implementation.
- Power System Transmission & Distribution.
- Control System Engineering & Modern Control Systems.
- Circuit Design, Analysis & Synthesis.
- Electrical & Electronic Instrumentation & Designing.
- Renewable Energy Power Generation.
- Electrical Machines & Drives.
- Power Electronics Basic & Advanced.
- Generation of Electric Power.
- Digital Electronics & Computer Science.
- Embedded System Engineering & Artificial Intelligence.
- Semiconductor Technology, ASIC & Fabrication.
- Deep learning,Machine Learning,Data Science,Quantum Computing & Blockchain.

COMPUTER SKILLS

COMPUTER LANGUAGES & APPLICATIONS

- C, C++, EMBEDDED C, Auto CAD,MATLAB, Simulink, Orcad P SPICE,PROTEUS ,SQL(Oracle 11g) , DBMS , Data structures,SAP,JAVA, Assembly language, HP QTP (Manual & Software) Software Testing & Development, MS-Office, MS-Project, CopeliaSim, Altium Designer,NI Multi Sim,Lab View, Ki CAD,Auto CAD Eagle,Easy EDA.

OPERATING SYSTEMS

- Microsoft windows(VISTA,7,8,8.1,10,11)
- LINUX(FEDORA,Ubuntu)
- APPLE co.(IOS 14,15,16,17)

CERTIFICATIONS

- CADD Centre Delhi certification on AutoCAD Electrical.
- AMCAT assessed and certified professional.
- ELITMUS assessed and certified professional.
- IEI kolkata designated Chartered Engineer and AMIE(AM1960965).
- IEI kolkata designated Professional Engineer(I)(PE7005475) in Electrical Engineering.
- International Association of Engineer's (Hong Kong chapter) designated Member(322944).
- IEI kolkata designated MIE(M1790948).
- CLASS-I Electrical professional from Govt. of NCT Delhi(50570000001527).

ACHIEVEMENTS AND AWARDS

- Participated and coordinated in the National Conference on **EMERGING TRENDS IN POWER SYSTEM ENGINEERING** and presented paper on **INITIATIVES TO IMPROVE ENERGY EFFICIENCY OF THE INDIAN ECONOMY: A REVIEW OF THE PAST EXPERIENCES AND FUTURE CHALLENGES** in 2012.
- Participated in the National Conference on **CONTEMPORARY ISSUES IN THE POST INDEPENDENCE** and presented paper on **THE WHITE TIGER :A REVIEW** in 2012.
- Participated in the National Conference on **INNOVATIVE&EMERGING TECHNOLOGIES IN COMPUTING METHODOLOGIES** and presented paper on **LASER AND COMPUTER APPLICATIONS IN FUTURE** in 2012.
- Participated and coordinated in the **International Conference on TECHNICAL AND EXECUTIVE INNOVATION IN COMPUTING AND COMMUNICATION** in 2013.
- Participated in the **International Conference on ADVANCE RESEARCH IN RENEWABLE ENERGY & POWER SYSTEM** in 2013.
- Participated in the workshop on **INDUSTRIAL AUTOMATION by VISION AUTOMATION SOLUTIONS** in 2013.

Certification & Awards

- Successfully completed Course on AutoCAD by CADD CENTRE Delhi in 2013.
- Successfully recieved Appreciation letter from UK client for Best Performer in 2017.
- Successfully accomplished and recieved Work Experience letter on successful delivery of 70+ projects to international clients solely in 2020.
- Successfully got membership of the prestigious IEI, kolkata as AMIE in 2021.
- Successfully got my articles published on Quora with official blog space(TECHNICAL CUROSITY) allotment with earnings and global presence in 2021.
- Successfully delivered projecst to NASA in 2021.
- Successfully completed and delivered 100+ projects to national & international clients solely in 2022.
- Successfully received official Professional Engineers(I) / P.Eng(I) title from IEI, kolkata in 2022.
- Successfully won the India's Global Achievers' Award 2021-22 from Indian Achievers' Forum in 2022.
- Successfully won the India's CPO of the Year Award 2021-22 from Xel Research(Australia) in 2022.
- Successfully received the Member designation from International Association of Engineers, Hong Kong chapter in 2022.
- Successfully attended the EFY expo 2023 in New Delhi in 2023.
- Successfully became the Global Winner of worldwide contest of NASA in 2023.
- Successfully completed and delivered 150+ projects to international clients solely in 2023.
- Successfully received the membership of the various societies of International Association of Engineers, Hong Kong chapter in 2023.
- Successfully received the Class-I Electrical Professional Certification cum License for performing independent Engineering & Technical activities from Government of National Capital Territory Delhi, India in 2024.

PROJECTS

EMERGENCY ASSISTANCE FOR UTTARKASHI INCIDENT

- The aim of this project is to provide the engineering execution plan of evacuation of 41 labors from the trapped tunnel which got successfully operated an executed within 72 hours of providing the solution with zero casualty.

MATLAB BASED CUSTOM BUCK BOOST CONFIGURATION DEVELOPMENT

- The aim of this project is to develop an novel algorithm for performing buck boost operation along with programming

control with AI assistance for better power conversion.

FABRIC ENERGY MANAGEMENT ALGORITHM

- The aim of this project is to develop an novel algorithm for performing energy impact management of a special 3D linked fabric material for special suits and armors.

NOVEL ALGORITHM DEVELOPMENT FOR ACTIVE CELL BALANCING WITHOUT LIMIT (Patent pending)

- The aim of this project is to develop an novel algorithm for performing active cell balancing for any no . cells in the pack with the highest possible efficiency where the charging and discharging along with all operations conditions are administered.

GREEN POWER INFRASTRUCTURE SYSTEM DEVELOPMENT with AI (Patent pending)

- The aim of this project is to develop a system in which the power consumption in the tower structure will be green energy based and managed by AI for the load distribution for micro management at load end for the first time.

ANFIS BASED RENEWABLE AND CONVENTIONAL POWER SYSTEM LOAD MANAGEMENT

- The aim of this project is to develop a system in which the power generation from the renewable system is being used to manage the load supply and balance any contingencies using conventional power plants.

SATELLITE BASED IMAGE PROCESSING DATA ANALYSIS AND INFORMATION SYSTEM

- The aim of this project is to develop a system in which the data in the form of the high quality satellite images were used for the data analysis and the necessary information gathering such as deforestation rate etc.

PORTABLE INDUCTION HEATER POWER MODULE WITH ADVANCED SWITCHING TECHNOLOGY(Patent Pending)

- The aim of this project is to develop a prototype for the induction heating for a portable module for the high heating applications with newly developed switching technique with minimal components.

ELECTRIC VEHICLE POWER GENERATOR CUM VEHICLE RANGE ENHANCER FOR SPACE APPLICATIONS (Patent Pending)

- The aim of this project is to develop to use the existing vehicle battery and the system associated parts and develop an upgrade to increase the mobility range of the vehicle up to 10 times the range at present.

RADAR DESIGNING AND PROTOTYPING

- The aim of this project is to develop Doppler Effect based radar for the detection of the variable range detection and the motion probability of the object in the space.

RENEWABLE ENERGY POWER BASED FACTORY

- In this I have designed a factory entirely dependent on renewable energy which has all the operations being done by consuming the renewable energy.

SOLAR POWER GENERATION PLANT WITH FUTURE POWER GENERATION PREDICTOR AND AUTOMATED LOAD MANAGEMENT(Patent Pending)

- In this project I have developed an algorithm which can manage the load with the help of future forecast data of the power generation using MILP,O&P,PSO and automate the complete solar power plant system without any human intervention.

E-VEHICLES FAST CHARGER AND CONTROLLER

- In this I have developed a prototype of an E vehicle charger and a controller compatible for E vehicles and provide a range of more than 300 km in a single charge irrespective of the battery specifications and also provide a fast charging in recorded time of approximately 20 mins.

NASA'S ASTROBEE CHALLENGE

- In this I have developed a robotic mechanical arm of astrobee (a robotic assistant) for the docking, stationing and assisting the astronauts in the ISS.

INDUSTRIAL ROBOT PROTOTYPING & DEVELOPMENT

- In this I have developed an industrial robot having mobile properties which can carry load from one place to another after detecting and analyzing them.

INDUSTRIAL GRADE EFFICIENT POWER CONVERSION SYSTEM

- In this I have developed a matrix based power conversion system which is far more efficient than the existing traditional circuit methodology with minimum power consumption.

POWER LOAD DISPATCH AUTOMATION SYSTEM

- In this I have developed an automated load dispatch management system for better utilization of the power generated and their efficient management will prevent losses from the existent system.

NEW TECHNIQUE FOR IMPROVED AND EFFICIENT MRI IMAGING & PROCESSING

- In this project I have developed a new technology for the MRI imaging and processing for a far much better output than the present technology with improved methodology for image capturing and portable operation.

IMPROVED DYNAMIC PERFORMANCE OF SHUNT ACTIVE POWER FILTER USING PARTICLE SWARM OPTIMIZATION

- The aim of this project is to develop a dynamic performance optimization algorithm for the efficient power filtration process in GSS using PSO and Modified P-Q Technique to Mitigate Power Quality Problems in Distribution System for load management.

802.11 WAN THROUGH PUT NETWORK SECURITY DEVELOPMENT FOR POWER SYSTEM

- In this I have developed a new secured based upon block chain mechanism and quantum computing for a better security networking for Power system protection.

ANTHROPOMORPHIC ROBOTIC ARM

- In this project I have developed a prototype of an anthropomorphic arm for the disabled persons in need consuming low power in operation.

3D MODELING OF A NEW POWER SYSTEM EQUIPMENT FOR PROTOTYPING AND DEVELOPMENT

- In this I have designed a 3D model in Auto CAD of a power system equipment (control section) for the prototyping and mass development in the commercial means.

RESEARCH AND ANALYSIS REPORT ON THE FUTURE TRENDS OF THE POWER AND ENERGY IN THE WORLD

- In this I have prepared a report based upon the data for the international organizations such as UN, CEA, IAEA, WEF, IMF etc. for reporting a global trend in the energy sector and the future possibilities in it.

INNOVATIVE ALGORITHM FOR THE SHORTEST PATH DETERMINATION

- In this I have developed an innovative algorithm for the determination the shortest path for the application of the power transmission in the long range transmission system which reduces the power loss and provide efficient and economic operation.

MATERIAL MODELING FOR CUSTOM PROTOTYPING

- In this project I have developed a new material from the para-magnetic material for the conduction of the power from a narrow channel in wireless power transmission.

MULTI SIGNAL MIXER, SPLITTER AND TRANSMITTER VIA SINGLE MODE OF COMM. CHANNEL

- The idea behind this project is to develop a system which will collect all the VGA,HDMI,Audio,USB 3.0, signal and transfer them to the reciever via a single mode of communication channel which is on basic grounds is CAT5e/6/7 cable. the advanced version can transmit the signal to multiple reciever channels as well.

MPPT BASED SOLAR PHOTO VOLTAIC ARRAY GRID CONNECTED POWER SUPPLY SYSTEM

- The idea of this project is to develop a system based on consumption renewable energy resources with the best

efficient possible way. In this system the Photo Voltaic array will supply necessary power to the nearby load which in domestic load cases corresponds to homes and the access power will be delivered to the grid for consumption by other loads nearby and of various types. This efficient system will be helpful for the regions which don't have proper access to electricity and even the most modern cities can use it for energy saving.

MICROCONTROLLER 8051 BASED 1-PHASE MONITORING AND PROTECTION SYSTEM

• The aim of our project is to develop a protection system which protects our home's electrical and electronic equipments appropriately against the over voltages and under voltages. The word here is referred to the microcontroller(8051) used as the brain of the project which determines whether the magnitude of the voltage is appropriated or not, which further controls the relay working as the controlling system(Relay) for the protection of the system.

MICROCONTROLLER 8051 BASED 3-PHASE MONITORING AND PROTECTION SYSTEM

• The aim of our project is to develop a protection system which protects our high rating equipments smartly against the over voltages and under voltages. The smartly word here is referred to the microcontroller used as the brain of the project which decides whether the magnitude of the voltage is appropriated or not, which further controls the relay working as the controlling system for the protection of the system.

TATA POWER DISTRIBUTION SYSTEM PROJECTS

• Designing, Modelling & Implementation of 33 & 11KV S/S above and below both for industrial consumers in Mangolpuri Industrial Area. Operation & Maintenance of various grid S/S from 11KV to 33 KV grid S/S with daily basis designing and modification in electrical distribution system (more than 11KV consumers).

SPEED CONTROL OF DC MOTOR USING DUAL CONVERTER

• The aim of this project is to develop a circuit for the speed control of DC motor of upto 15000 rpm rating using dual converter employing thyristor and can be replaced by any switching device which is capable of providing fully controlled switching in bidirectional mode of the input AC sinusoidal wave power.

POWER INFRASTRUCTURE DEVELOPMENT PROJECTS

• Design and Modelling and Implementation of transmission lines for 33KV in AutoCAD with layout/section drawing of HV substation from 11KV to 132KV and Design, Supply, Installation, Testing & Commissioning of Capacitor Banks in Grid S/S.

AUTOMATION USING DIGITAL CONTROL

• This project has the advantage of transferring data without the use of wires and by using lasers, the efficiency of data as well as energy will also be enhanced. Thus it can be an economic and reliable way of automation and transfer of information and data. Also, in future, it has vast perimeter of applications in automation industries. Our endeavor behind this project is to develop and demonstrate a less expensive, less power consuming, highly efficient simple device that can transmit voice signals, data and command from one place to the another without any hardship.

LASER GUIDED DATA AND VOICE TRANSMISSION SYSTEM

• The motive behind the development of this project is to develop such a system which will transmit the information in a less and basic methodological way. This prototype sends voice and data through carrier medium as laser. This project is a preliminary approach to a much better communication medium.

REFERENCES

- JAIDEEP MANOCHA(9413917860).
- RAVI SHANKAR SINGH(9958445716).
- HARUN(9268146035)
- PAWAN BANSAL(9268561980)
- DEEPAK(9910152726)

- PRIYAM(8237270001)
- SHAHAANA(7395918843)

ABOUT ME

- Name:-Pankaj Yadav.
- Father's Name:-Balwan Singh.
- Mother's Name:-Usha Yadav.
- Date of Birth:-10 Dec 1991
- Marital Status:-Unmarried.
- Languages known:-Hindi,English.
- Hobbies:-Meditation,Soccer,Yoga,Swimming,Badminton,Reading.

DECLARATION

"I hereby declare that the contents of my resume are accurate to the best of my knowledge and belief and verify the authenticity . Any use other than that of recruitment and/or interview etc. without prior permission will not be accepted and will be considered as a breach ,intrusion and illegal activity etc. for which I am not liable for its responsibility and may provide me complete authority to have lawful remedy".