

JAY PATEL

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OBJECTIVE

I have more than three years of Technical Experience in Electronics, Instrumentation and Networking field with Computer Science background. I have good command on controlling HVAC Equipment's in NYC Buildings and New Jersey commercial firms like Jail, Outlet Mall and Schools and newly constructed or Existing buildings as well.

SUMMARY

- Creative, Motivated and Committed to Excellence.
- Hardworking engineer with passionate about learning new technologies.
- Excellent Interpersonal abilities, Communication and Time Management skills. Experience with dealing client's requirements in short deadlines.
- Good understanding of networking infrastructure and configuration using academic courses.
- Much interested in learning integration using networking protocols such as Back net, TCP and Modbus.
- Academic knowledge of TCP/IP and OSI model. Theoretical knowledge of functions of communication systems.
- Practical experience of troubleshooting desktop PC software issues and configuring routers for desktop computers.
- Understanding knowledge of waterfall/Agile Business modeling process.
- Hands on experience in designing websites and gathering data to design website for clients.
- Experience with creating portfolio websites and goggle business website using HTML, CSS and JavaScript.
- Good Understanding of DDL, DML and DCL technologies.
- Experience with Oracle 11 g Database, Microsoft SQL Server and MySQL. Knowledge of solving PL/SQL queries.
- Knowledge of Software Development Life Cycle (SDLC) that includes Analyzing, Designing, Coding, Testing, Integration, Maintenance and Implementation & Software Support.

SKILLS

- **Hardware Testing Tools** : Multi meter, Cable tester, Card tester, Soldering de-soldering, CRO
- **Hardware Components** : OPAMP 741, LM 555, 8051 Microprocessor, Transformers, Power Supplies (ICS), Transistor, Diodes, Capacitors, Registers, PLC controllers (Alerton and Distech Systems)
- **PCB Designing Software** : DXP and Altium 2014
- **Building Management System** : Graphics Designing using HML5, DDC and Block Programming Compass 1.6, Envision 3.0, EC-Net4Pro and EC-NetAX, GFX Programming
- **Business Applications** : Microsoft Office, MS-Project.
- **Core Qualifications** : Project Management, Documentation of Projects and Time Management.
- **Operating Systems** : Microsoft Windows, XP
- **Web Developing** : HTML, CSS, JavaScript

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EXPERIENCE

Unitemp Inc.
Controls Systems Engineer

Somerset, NJ, USA
June 2019 – Present

❖ **Roles and Responsibilities:**

- Commissioning of HVAC Equipment's and Integrating controls into Existing Buildings.
- Ability to perform and checked Distech controls devices by individual capabilities.
- Design process for Commissioning and implemented testing and troubleshooting lab in office.
- Good communication skills to handle clients cooling and heating requirements.
- Experience with database migration from AX to N4 and vice versa.
- Worked on integration of existing systems to distech controls such as Honeywell, Schneider Electric and Alerton.
- Trained myself for Distech Controls with EC-Net4 and GFX programming knowledge.
- Supporting seniors for close out existing projects and assisting Electricians for easily accessible Panels wiring.
- Currently, engaging in resolving Punchlist items for existing projects.

ABM Systems Inc
Controls Engineer

New York, NYC, USA
Nov 2017 – June 2019

❖ **Roles and Responsibilities:**

- Commissioning experience of VAVs, CAVs, Air Handling Unit, CRAC units and many more air conditioning and ventilation units.
- Expertise in checking points to points while commissioning HVAC equipment.
- Knowledge of BACNet over IP and Ethernet using Alerton Envision 3.0 and Compass 1.6 software.
- Configuration of IP networks to setup communication into Alerton Compass.
- Integrating control devices with compass using Network configuration based on communication card used in the system.
- Troubleshooting experience for checking client's desktop PC software issues. Extinct Knowledge of protocols and network configurations.
- Experience of integrating graphical displays using HTML5 web compass features.
- Setting clients BMS PC and Installation of basic software.

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- Hands on experiencing in understanding and implementing HVAC designs with low voltage controllers. Troubleshooting errors in Visio DDC Programming.
- Practical knowledge of operation of ABB drives. It is used to interlocking speed reference.
- Hands on Experience of Purge System and good enough Understanding of Fire Smoke dampers interlocking with Building Automation Systems.
- Good Understanding of clients meeting and requirements satisfaction.
- Good Understanding of Safety precaution in Construction field with OSHA 10 certified.
- Managing teams and scheduling for the junior team members for assigning beginners level work.
- Teamwork with handwork and client's satisfaction.
- Setting up electricians for installation and wiring based on design with respective locations.
- Ordering materials from office to job site.

Patwa Kinnarivala Electronics LTD
R&D Engineer

Gujarat, India
Oct 2013 - June 2015

❖ **Roles and Responsibilities:**

- Practical knowledge of Electronics components and EYC systems till installation and servicing in textile industry.
- Experience of meeting clients to discuss our company's products and services to sign agreements and Deals with Clients.
- Experience with setting up Testing/Repairing Labs in R&D department.
- Designing of PCBs using DXP and Altium 2014 software. Experience of tracing tracks with easiest way and selecting right components.
- Ability to work on high pressure from clients to meet deadlines.
- Managing Team of Technicians to installed and commissioned our products on fields.
- Troubleshooting ability of repairing high voltage power circuitry.
- Setup 2 IN 1 yarn clearer and LMS systems for Textile industries in India.
- Experienced of soldering and DE soldering, Multi-Meter and CRO checking.
- Handled all documentations of the software and assisted QA department for ordering right electronics components. To enhance productivity of the company.
- Maintained almost zero false cutting result in setting up EYC systems in Vardhman Mill.
- Maintaining shift wise logs which included machine downtime, generated problems, total production per shift.

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ACADEMIC PROJECTS

Library Management System (Academic-Project)

Technologies: Oracle 11g developer.

- Created the database for business plan using Oracle 11g creating ER diagram,
- Creating tables, insert data, make primary key, foreign key, composite primary key,
- Using joint queries, set default, unique, check, and null value, complex view, using function, set operation,
- Use grate to group member and with some PL/SQL quires like function and procedure.
- This project aims at a system, which helps admin to keep record about books that issued from library.
- Also, it keeps record of returned date of the issued book to charge users if it is late to return book.

Matrimony Website Designing (Academic-Project)

Technologies: MySQL, HTML, CSS and PHP Programming

- College Team Project
- Gathered require information about the users' needs for perfect bride and groom.
- Analysis Data and created database using MySQL.
- Methodology developed for Ease in developing database as it is so large database.
- I worked in front-end designing and creating Database in team.
- Relational Database also defines the relation between the users' tables to admin tables.
- Designed using HTML, CSS and JavaScript as Front-End. Used PHP Programming as Backend.
- Used WAMP Web Development to run the code with apache, PHP and MySQL database.

Portfolio Website (Self- Project)

Technologies: HTML5, CSS3 and JavaScript

- Created website that displays basic information about me and my professional aspects. Used HTML to structure the website and CSS to design it. Also, I have improved my Object-Oriented Skills by learning JavaScript.
- I designed and developed web interfaces which are responsive, great looking, with a special focus on layouts. Proficient in building Web Interface using HTML5, CSS3, Object Oriented JavaScript that follows W3C Web Standards and are browser compatible
- Implement and follow User Centered Design process.
- Design websites user interface using HTML5, CSS, jQuery, JavaScript, and Bootstrap.
- Used Photoshop and illustrator to create & modify web graphics.
- Strong understanding in functional specifications and developing creative solutions to meet business requirements.

Project management

- Developed business plan and made project charter.
- Work Breakdown Structure (WBS)
- Gantt chart, SWOT analysis.

EDUCATION

Monroe College,
Master's in computer science, (GPA 3.65)

New Rochelle, NY, USA
June 2017

North Maharashtra University,
Bachelors of Electronics and Telecommunication Engineering, (First Class)

Jalgoun, MH, INDIA
April 2012

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TECHNICAL TRAINING

Sofcon India Pvt LTD

Vadodra, Gujarat, INDIA

Aug 2012

- PLCs (Allen Bradley, Siemens and ABB)
- SCADA Systems (Supervisory Control and Data Acquisition System)
- Automation Drive Knowledge
- Gained Practical Knowledge of Industrial Automation Systems.

Triduum (Distech Controls)

New York City, NYC

Jan 2020

- Learned practical knowledge of Triduum and architecture used for Distech Controls systems.
- Experience with small hand on project with GFX Programming and EC-NET4 Graphics update.
- Also, got involved into small online N4 Pre-Certification program.