

# JAY PATEL

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## OBJECTIVE

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

## SUMMARY

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- 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.
- Extensive experience in conducting Market Research, Feasibility Studies, Gap Analyses, Risk Identification, Risk Assessment, Risks Analyses, and Risk management
- 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

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- **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
- **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

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**Unitemp Inc.**  
Controls Systems Engineer

**Somerset, NJ, USA**  
June 2019 – Present

❖ **Roles and Responsibilities:**

- Commissioning of HVAC Equipment in Commercial newly constructed or existing controls updating.
- 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.
- Training 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 as well.

**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.
- 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.

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- 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 clients 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

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### **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 Back-End.
- 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

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**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

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**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.