Pratik Patel

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ENTRY-LEVEL MECHANICAL SYSTEM ANALYST

Recent graduate of university from ABET-accredited BSME program. Experience involved in cost analysis models, candidate material selection and performance, designing the mechanical system, products using engineering analysis and principles. Experience in processing lab specimens, research and development, data analysis. Motivated Mechanical Engineer focused on analytics, designing, and applications seeking entry-level position. Computer skills involve Computer Aided Design (CAD), Computer Numerical Control (CNC), Programmable Logic Controller (PLC), System Applications Products (SAP), Enterprise Resource Planning (ERP). **Developed an understanding in key courses of the following areas:**

Engineering Analysis | Cost Management | Computer Aided Design (CAD) | Strength of Materials Engineering | Stress Analysis | Machine Design | System Dynamics | Thermodynamics | Heat Transfer | Vibration Analysis | Automatic Control | Mechanical System Design | Mechanical Lab experiments performance | Testing and Technical Reporting | Business Process

EDUCATION:

New Jersey Institute of Technology, Newark, NJ   May 2018
B.S., Mechanical Engineering
Raritan Valley Community College, Branchburg, NJ   May 2015
A.S., Mathematics

RELEVENT ANALYST EXPERIENCE:
Accurate Diagnostic Lab- South Plainfield, NJ
Data Analyst and Processor   June 2013 – Nov 2017
- Tabulating, Managed the data utilizing Beckman Coulter automation machine, Tracking lab specimens.
- Balancing specimens to precision through Centrifuge, analyzed the laboratory data, resolved query sheets
- Troubleshoot Beckman Coulter machine prior to beginning procedure, Tabulating the specimen data.

ACH Service, LLC – Manalapan, NJ   June 2017 – Sep 2017
Manufacturing Engineering Intern
- Developed CNC machinery Installation process and assembled mechanical components using hand tools
- Trained Supervisor in how to operate the CNC machine safely and within guidelines, defined production process, data extracted utilizing CNC console panel and RDWorks
- Examined and engineered the product quality by testing different materials, Power and speed controlled

New Jersey Institute of Technology (NJIT), Newark, NJ   Sep 2015 – Oct 2016
Research Assistant
- Assisted the University's Civil and Transportation Engineering Department research simulate data flow
- Conducted Research and Development (R&D) focusing on vehicle flow for the live traffic.
- Collected, tabulated data and volume count with accuracy

VOLUNTEER:
   Jain Center of New Jersey (JCNJ)   Sep 2015 – Present
   Martin Luther King Jr. Youth Center   June 2015 – Sep 2015

TECHNICAL SKILLS:
Proficient**:** Microsoft Office Suite (Word, Excel, PowerPoint, Visio), MATLAB, Logger Pro, Finite Element Analysis (FEA) and Thermal Analysis.
Working Knowledge: AutoCAD, SolidWorks, PTC CREO PARAMETRIC 2.0/3.0 (Pro-E), DYNACAM, Linkages, Minitab
Familiar: Basic Understanding of Computer Numerical Control (CNC) Machining and Processing, Engine components, pump, and fuel system, Performance Testing, Equipment Maintenance and Installation, Generated Engineering Drawings with BOM, 2D-3D Models, Dimensioning and Tolerance, System Applications Products (SAP) and Enterprise Resource Planning (ERP)

ADDITIONAL PROJECT EXPERIENCE:
- **Gaming Controller Optimization (Senior Project):** Completed and achieved project milestones followed tight schedule, applied engineering principles analysis to analyze the joystick system, designed utilizing engineering calculations such as capacity load, Static Stress Model, Normal stress, Fatigue failure, analyzed motion study due to thumb on joystick, tested, managed accountability, attended weekly meetings to track the status of the project schedule.
- **Rotary Pressure Joint/ Drone Predator:** Generated Detailed Drawing, Assigned Bill of Materials (BOM) to Engineer to Order (ETO), assembled components utilizing SOLIDWORKS and PTC CREO 3.0, extracted data utilizing CAD

AVAILABLE FOR RELOCATION AND TRAVEL