

# BHANU PRAKASH(BHANU)

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## Summary:

Energetic graduate Mechanical engineer with 3+ Years of work experience in Manufacturing and Maintenance Engineering, competent with the challenging environment and a Hard working Team Player looking for full time opportunities in the Relative fields of Mechanical Engineering and Maintenance Engineering.

## Technical Skills:

AUTOCAD(CERTIFICATION)  
CREO PTC ( CERTIFICATION)  
CATIA V5 (PURSUING)

MICROSOFT OFFICE  
Basic MATLAB programming  
EBOM & MBOM

SOLIDWORKS  
TABLEAU Basics  
GD&T

## Work Experience:

### Mechanical Engineering/CAD Drafting Intern, National Railway Equipment(NRE), Mt. Vernon, IL.

May 2020- Aug 2020

- Analysed and created technical reports, detailed design parts procurement and manuals for different custom metal cleaning machines through compilation of detailed CAD drawings and data into a single component.
- Reviewed customer requirements and design specifications, and provided design feedback to the customer to reduce production cost and decrease manufacturing complexity with a focus on eliminating waste.
- Negotiations with suppliers and customers for PCE and Installed Engines and alternators. Also, performed CRM training programs
- Designing of 3D models using GD&T for stress, strain testing, proof-of-concept, mock-ups of metal blasting machines.

### Student Building & Facilities Manager, Wichita State University, Wichita, KS.

Feb 2018- Apr 2020

- Responsible for maintenance and timely repair of all equipment, Developed engineering solutions for equipment reliability problems.
- Direct involvement in assessing day to day safety issues and developing and implementing solutions and supervised 07 departments
- Communicated across disciplines and management teams, been in front line as customer support in representing department during client meetings
- Attained knowledge on space management Using POC software and provided technical support during operations and maintenance
- Coordinated maintenance activities with other facility operations and scheduled manpower and materials to meet maintenance requirements
- Responsible for ensuring adequate tooling coverage during facility operational hours and Train new recruits on Electric systems

### Material Science Engineer Intern, CST Industries, Parsons, KS.

May 2018- Aug 2018

- Analysing & collecting data responsible for Process optimization, Layout and design changes in paint line.
- Worked in a multi-functional environment which includes communicating with other Engineers both at a factory and R&D levels, and ROI calculations, Powder Paint Recollection Techniques, .
- Developed Project layout design including samples Testing Timelines and assisted in material handling process, Designed a environment chamber for rapid powder recollection
- Project Update Reviews and presentations to SME and Engineering Team and Multi-functional Groups.
- Performed site Reviews with key experts and Performed Data Analysis by creating and maintaining Dashboards using TABLEAU, visited various plant locations to check for installations and New Product's match with the production requirements.

### Mechanical Engineer, A.P. Thermal Power Generation Corporation, LTD. India.

Sep 2016 - Jun 2017

- Engineered boiler division and supervised daily boiler steam supply. Closely worked with target plans, scheduled and supervised sampling and laboratory analysis of fuel, water and air related issues and performed other samples for the generation station.
- Planned and coordinated the installation, inspection, calibration, maintenance and repair of all plant related chemistry as pertaining to the laboratory and field devices.
- Successfully Led the engineering teams to monitor condensate, make-up water, service water and wastewater treatment systems.

## Engineering Projects:

### Design optimization and FEA simulation of ATCT HydroDynamic Torque convertor to study the Torque Performance

2019-2020

Tools used: CATIA V5, ANSYS FLUENT, ANSYS CFX

Modelled and simulated a design model of a ATCT0082 Torque converter for a TOYOTA CAMRY Transmission by changing design parameters of Blade Angle, Blade Numbers and Scroll Angles to study the vibration analysis and modal deformation. CFD analysis using ANSYS FLUENT & ANSYS CFX was performed to check for its potential Torque performance under Varying Loads on Engine found out an increase in efficiency.

### Environmental Impacts and PPM emissions of converting a Retractable Spray Paint station to GEMA powder coating booth

Tools used: Creo PTC, Microsoft Excel, EPA Calculator, ALOHA

2018-2019

Performed a complete study on environmental impacts and emissions from a spray paint that uses conventional liquid paint as a topcoat for insulation purposes. Performed SWOT analysis of powder coating system. Also, using Creo PTC designed new Fixtures, performed Cost Benefit analysis of GEMA powder coating system and ALOHA to check for chemical risks of equipment.

## Education:

-Masters of Science(MS)-Mechanical Engineering, Wichita State University, Kansas.

2017-2020

-Diploma In Product Design- CAE, National Skill Development Agency, INDIA.

2016-2017

-Bachelor's of Technology- Mechanical Engineering, J.N.T.U Anantapur, INDIA.

2012-2016

## Conferences:

"2018 ANNUAL EPA CONFERENCE- KANSAS DIVISION, K-STATE PPI, MANHATTAN, KS,USA". Presented a paper on "Environmental Hazards of switching Conventional paint to powder coating systems and impact on PPM emissions".