

DHAVAL B MANDALIA

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Summary:

Experienced Mechanical Engineer with a demonstrated history of working in the machinery industry. Skilled in Computer-Aided Design (CAD), Computer-Aided Manufacturing (CAM), Additive Manufacturing, SolidWorks, Autodesk Netfabb, Autodesk Meshmixer, Coral Draw, Adobe Photoshop, Manufacturing Operations, and Engineering.

Engineering Experience:

Jewel Cast & Techno Pvt. Ltd.

Ahmedabad, India

Sr. Technical Engineer

Feb 2018 - Present

- Provide Engineering Support for the for the machines like 3D Printers and Casting Machines used in investment casting techniques.
- Make necessary design changes using Rhinoceros 6 software for training the customers regarding the machines.
- Work as a Head of machine installation team and guide them about how to install the machine and also design the process layout in which machines are best suited.
- To maintain relation and give technical support to the customer regarding Improvement in Quality and Manufacturing Process and Operations.
- Perform Root cause analysis for the Built in Quality issues and design issues and documentation errors.
- Work on various Quality Issues and Continuous Improvement activities on the line to improve the machine efficiency.
- Troubleshoot Engineering problems on the line by implementing PDCA (Plan – Do- Check – Act) methodology.
- Carry out BIQ (Built-In Quality) investigations to improve the productivity and the quality of products on the line.

TFI Filtration (India) Pvt. Ltd.

Ahmedabad, India

Quality Assurance Engineer

Aug 2017 - Feb 2018

- My work involves detailed recording on paper of the inspection, managing the workplace and inspection for any of the specified defects in the part and if found, reject it with proper documentation.
- To test and inspect all the raw materials purchased is according to the desired standards and quality. Testing the raw material with different test like Molybdenum Test for recognizing the material if it is SS304 or SS316L.
- To Inspect and compare the finished product and with AutoCAD Drawing based on dimensions and material thickness. To perform Hydro Test on the filter to check the maximum pressure it can handle according to drawing and calculation.
- Making a detailed report of Quality Assurance and the Test Certificate for various parts in the filter.

Gajanand Industries

Ahmedabad, Gujarat, India

Assistant Floor Space Supervisor

Jan 2016-Dec 2016

- Served as an assistant floor space supervisor in Gajanand Industries carrying out different types of manufacturing operations including drilling, boring and reaming.
- Performed inspection of drilling operations on the workpiece according to the needs of the customer, the drilling operations included radial drilling and horizontal drilling.
- Carried out inspection of the parts by checking the diameter of holes drilled into the workpiece by comparing it to the plan and these diameters of holes were checked using instruments such as vernier calliper and micrometer screw gauge. I also did Geometric Dimensioning & Tolerancing (GD&T) of the workpieces to assure that they meet the desired standards and the needs of the customers.

Kataria Automobiles Pvt. Ltd

Sarkhej, Ahmedabad, Gujarat (Maruti Suzuki)

Workshop Assistant Supervisor**Aug 2015 – May 2016**

- Served as the workshop assistant supervisor at one of the leading authorized service centers of Maruti Suzuki Pvt. Ltd.
- My Daily operations included inventory count and assess incoming vehicles for proper workspace location. My work on a specific car starts by manual inspection of the complete vehicle for damages on body and tires followed by a detailed assessment of what the vehicle needs for a regular maintenance.
- The majority of work that took place under my supervision include engine support and mountings, body maintenance, clutch rebuilding, engine replacement, transmission and pulley maintenance and repairs, suspension inspection and replacements.

Education:**Bachelor of Engineering in Mechanical Engineering****CGPA: 7.85/10 June 2017**

L.J Institute of Engineering and Technology

Ahmedabad, Gujarat, India

Diploma in Mechanical Engineering**CGPA: 6.70/10 June 2013**

V.P.M.P Polytechnic

Gandhinagar, Gujarat, India

Undergraduate Project-**Effect of nanofluid on thermal conductivity of heat exchanger****July 2016-May 2017**

- Prepared nanofluids of different concentrations by mixing it with distilled water and using it as working fluid in the heat exchanger fabricated by my team.
- Made 3-D model of the heat exchanger we fabricated in SolidWorks.
- Carried out various experiments to check the heat transfer rate, effectiveness and thermal conductivity of the heat exchanger after using the working fluid as nanofluid and compared it with the readings obtained after doing experiments using the working fluid as water in heat exchanger.
- Formidable rise in readings was observed when mixture of water and nanofluid was used instead of water as the working fluid.

Achievement:

- Submitted a review paper entitled “Thermal characterization of Nanofluids-A review article” for possible publication in Journal of The Institution of Engineers (India): Series C.

Computer Skills:*Technical*

SolidWorks, Auto Cad 2016, Autodesk Netfabb, Autodesk Meshmixer, Rhinoceros.

Productivity

MS Office (Excel, Word, PowerPoint, Outlook, Project)

OS

Windows 98/Vista/Xp/7/8 /10 and Macintosh