**S. Moulali Reddy Mobile:** +91-9987094627 **~ E-Mail:** s.moulalireddy@gmail.com

**Seeking assignments in Product Design and Quality Control with an organization of repute**

**Executive Summary (Previous-1)**

* I did S**ix Sigma Green Belt** through “IACT (**International academy for certification and training**).”
* I did **Lean** **Six Sigma Black Belt** through “**Henry Harvin Education**”
* Presently working as an **Assistant MANAGER** in **JSW Steel Limited,** Bellary, Karnataka. Department of PDQC (**Product Design and Quality Control**).
* Presently I am seeking in the area of **hot rolling** with **New product development of Automotive and Line Pipe products.**
* Internal quality improvement projects to reduce the **Cost of Poor Quality**.
* Interacting with customer for New application, complaints and enquiries with their end application.
* Simulation of welded products through **SYSWELD** software.
* Prediction of properties and data analysis through the **PYTHON** software.
* Team member in **Industry 4.0** (Approach and development).
* **IATF** document preparation for automotive customers and **external audit** facing once in a year.

**Executive Summary (Previous-2)**

* I worked as a **JUNIOR MANAGER** in **JSW Steel Limited,** Bellary, Karnataka.
* I joined JSW Steel Limited in **18/11/2013** in **HOT STRIP MILL – Quality Control** **Department (**Technology Excellence**).**
* Monitoring of defects in **Parcy Tec** (Online surface inspection).
* Monitoring of Finishing and Coiling Temperatures.
* Inspection of coils in physically and checking of coil build up manually (Quality Control).
* Maintaining the required properties in the coil, according to the customer requirement.
* Checking of all parameters related to lab (Strength, Ductility) & mill parameters (FT, CT, Thickness, Width, Crown) before releasing the coils.

**Executive Summary (Previous-3)**

* An astute professional with **over 2.4 year** of experience in **Blast Furnace Operation in SBQ Steel Limited,** Nellore, Andhra Pradesh.
* Deft at maintaining the casting schedules and quality of refractory materials.
* Adept at checking the operational failure in a blast furnace inevitably leads to a chilled hearth.
* Expertise at assessing the success of the recovery and an expert in investigating accidental blasts.
* Possess excellent communication, relationship management & team building skills.

**Career Contour**

**Since Aug’03 2011 with SBQ Steels Ltd, Nellore, Andhra Pradesh as Engineer (Blast Furnace Area)**

**Key Deliverables:**

* Maintaining raw material charging in Blast Furnace along with conducting operations of hot blast stoves.
* Performing the operations and maintenance of Cast house and pig casting machine.
* Maintaining of Blast Furnace parameters.
* Analyzing the operational data prior to and during an event, including gas analysis, blast volume, blast and furnace pressures, and stock line movement and level.
* Investigating quality of materials, coke and ferrous, charged to the furnace compared to specification.

**Academic Credentials**

2016-2018 M Tech. (Metallurgical Engineering and Materials science) with an specialization **Steel Technology from** IIT Bombay with 9.45(CGPA) %.

2007-2011 B.Tech. (Metallurgy and Materials Technology) from Jawaharlal Nehru Technological University, Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad with 76.83%

2005-2007 12th from Nalanda Junior College, Kurnool, Board of Intermediate Education with 80%

2004-2005 10th from Balaji High School, Jammalamadugu, Board of Secondary Education with 76.66%

**Accolades**

* Bagged a distinction at school and intermediate levels.
* Received first Prize in Technical Quiz Conducted as part of Technozion X at the National Institute of Technology, Warangal.
* Achieved second Prize in Paper Presentation conducted as a part of TECHNOVATION-09, MGIT.
* Won third Prize in Junkyard Wars Conducted as part of Technozion X at the National Institute of Technology, Warangal.
* Achieved second prize in Academic Excellence in 2010.
* Won second prize in Technology cluster meet sports (JSW steel limited) for the game Volleyball at Oct 2018.
* Won third prize in Technology cluster meet sports (JSW steel limited) for the game Kabaddi at Oct 2018
* Won second prize in Technology cluster meet sports (JSW steel limited) for the game Volleyball at Aug 2019.

**Certificates**

* **Six Sigma Green Belt** through IACT (International academy for certification and training).
* **Lean Six Sigma Black Belt** through **Henry Harvin Education**.
* **Life Cycle Assessment** through GaBi software**.**
* **APQP/PPAP** training through Omnex consultant**.**
* Attended the online session of “**Faculty Development Programme”** at different colleges to improve the skills. (**Topics: Additive manufacturing, Industry4.0, Electric vehicles & solar energy).**

**Extramural Engagements**

* Student Convener of METALLON’10, a national level technical symposium conducted in MGIT, Hyderabad.
* Worked as the part of the organizing committee for FMMT (Frontiers of Metallurgy and Materials technology), an international conference conducted at Taramati Baradari in 2009.
* Worked as the Student organizer for International Winter School on Advances in Aerospace Materials and Technologies in Dec-2010.
* Attended a national level conference conducted by Indian Institute of Metals.

**Projects Undertaken (Engineering)**

*Mini Project:*

**Title:**  Development of Ti-Ni Sputtering Targets

**Place:** Defence Metallurgical Research Laboratory, Hyderabad

**Details:** Project aimed at preparing Three Sputtering targets, are of three different Compositions (25Ti-75Ni, 50Ti-50Ni, and 75Ti-25Ni).These targets are made of Vacuum Arc Re-Melting Furnace and observed the behaviour of targets under Forging. Also studied the properties like chemical composition, micro structural features, hardness and XRD are evaluated.

*Main Project:*

**Title:** Investment Casting of Torpedo Nozzle.

**Place:** Defence Metallurgical Research Laboratory, Hyderabad

**Details:** Super Alloy (CM 247) Is Made with Investment Casting, through steps of Pattern Moulding & Assembly, Slurry Coating, Stuccoing, Drying, De-Waxing, Firing, Melting, Casting & Fettling. The creep strength of the product should be enhanced as we go for higher temperature application; only (Ni base) super alloys satisfy this condition. Products of super alloy obtained by above process, and observe the properties like microstructure, hardness and comparison of Fe-base super alloy and this super alloy. This nozzle having intricate shape inside for passage of air or gas, this intricate shape can only made through investment casting only.

**Projects Undertaken (Masters)**

**Project Title**: Effect of percentage reduction during cold rolling and annealing temperature on the microstructure and mechanical properties of TRIP steels.

**Details:**  TRIP steel was developed in JSW steel limited Bellary, To desing the intercritical annealing temperature this steel was processed at two different intercritical annealing temperatures. Final result shows that average of Ac1 and Ac3 lines gives the maximum amount of RA fraction and Carbon percentage in RA.

Another process with an constant intercritical annealing temperature varying the cold reduction percentage, more reduction percentage more amount of RA fraction and finer, this gives the better mechanical properties. During tensile test varying the strain rate, UTS is differs in opposite manner in two different intercritical annealing temperatures.

**Personal Dossier**

**Date of Birth:** 19th March 1990

**Address:** H. No. 4/112, Puchakayalapalli, Uyyalawada, Kurnool, Andhra Pradesh, India

**Linguistic Abilities:** English, Hindi, Telugu and Kannada.