



ANINDYA SUNDAR HAZRA

Bachelor (B.Tech) in Mechanical Engineering with 11 years of experience in Industrial Production (Process control /operations) and Quality assurance. As an Assistant manager Major focused areas of my career are Aluminium Foundry operations, Aluminium ingot/slab and strip casting, cold rolling operations, and other Aluminium in downstream operations & Quality Assurance.

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CORE COMPETENCIES

Manufacturing Operations

Operational Excellence

Quality Assurance & Compliance

Operational Excellence

Continuous Process Improvement

Attain benchmarked productivity

Trouble shooting customers complain

Engineering drawing

Team Management & Leadership

KNOWLEDGE PURVIEW

- Aluminium Foundry Operation
- Twin roll strip (Pechiney 3C & Zhuoshen tilting caster) casting of Aluminium
- Aluminium LHC DC Slab casting (Wagstaff Inc.) & Die casting
- Process & Quality improvement
- Root cause analysis
- Slab & Strip rolling operations
- Chemical & mechanical property analysis

PROFILE SUMMARY

- Performance driven professional offering experience in **Aluminium downstream operations (Different types of Casting & Rolling operations, Chemical analysis through spectrometer, Mechanical property analysis)** participating in high level operational initiatives including turnaround management and reorganization while delivering results in growth, revenue and operational performance
- Extensive exposure of **developing, implementing and maintaining quality systems procedures** in compliance with quality standards by developing SOPs & Quality protocols for the Quality Department encompassing Field Quality, In-Process Quality & Supplier Quality
- Spearheaded end-to-end **Manufacturing Operations** by ensuring **Project Management** and adhering to **quality control & assurance and cost optimization**; excellence in devising optimal solutions, leading **day-to-day production/manufacturing operations** for making effective utilization of **5M (Man, Machine, Materials, Method & Money)**
- Insightful skills in **driving process improvement by implementing** 8D, Lean Manufacturing, Kaizen, Poka-yoke, Kanban, 5S Concepts, Multi-Skilling Concept, DMAIC, Just-In-Time, Time & Method Study, Time Loss Analysis, Value Stream Mapping, TPM & TQM, Capacity Planning, Facility Layout, Production Planning & Scheduling; process standardization for productivity & quality improvement
- Expertise in **Quality Management System [IS 737 (2008), ASTM-(B209), EN-573, SPC, 8QC Tools, PPAP, APQP, PFMEA]** including audits and recommending & implementing corrective actions while ensuring in-process quality control and continuous improvement in process capabilities; competent in **analyzing problems, account for variances, driving for root cause** and implementing improved methods and procedures for instituting quality control techniques to achieve product excellence at the lowest overall costs
- Notable success in driving **risk management** measures by monitoring & implementing health, safety & environment practices to ensure safe & accident-free work environment. Technically sound and adopted **Six Sigma green belt project** in our previous industry and perform efficiently to increase productivity & improve recovery

ACHIEVEMENTS

- Successfully takes part in '**Garmco remelt Expansion project**' at the posted site as a **Process Specialist**. Posted area- Gulf Aluminium Rolling Mill B.S.C (c), Bahrain (<http://www.garmco.in>)
- undergone in-house six-sigma green belt project about 'Recovery Improvement & Reducing Rejection' from '**Business Excellence Consulting Group for Breakthrough Results' (BECG)**
- Enhancement of foil stock recovery from 78% to 80% through strict process control measure
- Production of Aluminium hardener (Al-Fe master alloy) by recycling scrap in our hardener plant in ESS DEE Aluminium Ltd.
- Improved quality by effective production technique and reducing casting failures also increasing productivity

TECHNICAL SKILLS

- ERP**
- SAP End-user**
- Windows**
- MS office**

CAPABILITIES INCLUDE

- Interdisciplinary knowledge**
- Process & Quality control**
- Quality attributes of production**

Mechanical engineer experienced working in fast paced environment demanding strong organizational, technical and interpersonal skills organizational, technical and interpersonal skills. Trustworthy, ethical and discreet committed to excellence in work. Confident and poised in interaction with individuals at all levels.

WORK EXPERIENCE

First Employer- ESS DEE ALUMINIUM LTD. (India Foils unit) (<http://www.essdee.in>)

Last Designation: Assistant Manager QA

Duration: June 2012 to September 2014

Location: Kolkata, West Bengal, India

Growth Path:

June'12 to June'13: Graduate Engineer Trainee

July'13 to Sep'14: Assistant manager QA

Highlights:

- FOUNDRY OPERATION MONITORING (METAL PREPARATION, ALLOYING, FLUXING, DEGASSING & DROSSING)
- OPERATIONS OF ALUMINIUM CASTING THROUGH **PECHINEY 3C JUMBO 620** CASTER
- COMPOSITION ANALYSIS BY **ARL METAL ANALYZER (OPTICAL EMISSION SPCTOMETER)**
- OPERATIONS OF **4 HI NON-REVERSIBLE COLD SHEET ROLLING MILL (LOEWY)**
- SIX-SIGMA GREEN BELT PROJECT ON '**RECOVERY IMPROVEMENT & REDUCING REJECTION'**

Roles Across The Career:

- Responsible to look after melting of ingots and process scrap for alloying AA8011 in 20 MT tilting furnace and filtration of molten metal through Alpur & CFF (Ceramic foam filter)
 - Responsible to take corrective and preventive action to attain benchmarked Productivity & recovery
 - Analyzing & implementing operational efficiencies for effective process enhancement through right utilization of organizational resources
 - Responsible to maintain quality attributes of casting (metal level & metal temperature controlling, degassing, proper drossing, macro etching of cast sheets and crown calculations)
 - Analysis of Hydrogen content before and after Aluminium purification
 - Chemical compositions analysis of Aluminium ingots, Al-Fe master alloys, melting bath & cast coils through ARL 3460 OES (Optical Emission Spectrometer) metal analyzer
 - Supervision of sheet rolling mill which involves (pass schedules, auxiliaries, desired gauge, proper winding & change of work rolls before final pass etc.)
 - Responsible to look after various defects of foil stock & check dimensions during final inspection which carried out at slitter
- Formulating KPIs for smooth business operations;** determining areas of improvement and planning & implementing the continuous process improvement

Second Employer: ASBESCO (INDIA) PVT. LTD. (<http://www.asbesco.com>)

Last Designation: QC Inspector

Duration- September 2014 to March 2017

Location: Howrah, West Bengal, India

Growth Path:

Sep'14 to March'17: Quality control Inspector

Highlights:

- MONITORING OPERATIONS OF ALUMINIUM FOUNDRY & DIE CASTING
- COMPOSITION ANALYSIS BY **METAVISION ATOMIC EMISSION SPECTROMETER BY METAL POWER**
- ALLOYING OF LM6 & LM9 ALLOY AS PER BS-1490 / IS-617
- HANDLE INSPECTION OF MATERIAL BY CUSTOMER & THIRD PARTY

Roles Across The Career:

- Inspecting Die casting operations, casting related several testing & various machine shop operations of different hardware products as per 2D engineering drawing and maintaining routine work through Lighthouse ERP system.
- Responsible to look after melting of ingots and process scrap for alloying LM6 & LM9 (as per IS-617 & BS-1490) in 2 MT tilting reverberatory furnace and degassing, proper drossing.
- Chemical compositions analysis of Aluminium ingots, Al-Fe master alloys, silicon and various ferrous elements through **Metavision Atomic Emission Spectrometer**.
- Density and percentage of porosity calculation of various ferrous and non- ferrous alloys through **Furdoonjee Densitometer**
- UTS testing of various clams and connectors and pole line accessories through Bluestar UTS Machine (400KN capacity). Always try to troubleshoot customers complain.
- Hardness testing of various ferrous and non- ferrous metals through Brinell hardness tester.
- Ability to handle third party and customer's inspection.
- Maintaining **entire production related reports, inventory & stock requirements, material procurement plans** and work delegation schedules (weekly & daily) for completion of production process.
- Assuring that the assigned tasks are executed as per **conformance with approved quality guidelines & strategies set-up** for achieving highest quality & excellence standards.

Previous Employer: M. N. DASTUR & (P)Ltd. (<http://www.dastur.com>)

Last Designation: Senior Process Engineer

Duration: June 2017 to April 2019

Location: Kolkata, West Bengal, India

Growth Path:

June'17 to April'19: Senior Process Engineer

Highlights:

Posted at GARMCO at Bahrain as a Process Specialist, for 120 MT per annum capacity re-melt expansion project, where 'Fives Solios' is the EPC vendor and Dastur Engineering was consulting expert.

The major equipment suppliers as follows:

Melting/Holding Furnaces: Fives Solios,

Twin Chamber Scrap Melting Furnace: Otto Junker,

Rotary Flux injector & ACD: STAS

CFF: Novelis, LHC DC Slab Casting Machine: Wagstaff Inc

Roles Across The Career:

- Standard operating procedure (SOP) and Job Safe practice (JSP) before first cast.
- Risk matrix analysis and review before first cast and sequential planning before 5 minutes of cast.
- Volume and weight calculation of liquid metal considering a certain depth of metal at different sections of launder, degasser and CFF according to the design slope.
- Responsible for different charge mix, proper sequence of alloy change, alloy composition and scrap management procedure. Operation of RFI, Degassing and CFF for molten metal filtration purpose.
- Proper sequential operation for the casting which will improve the quality of the slabs and increase productivity.
- Temperature and analytical points review after each and every cast and taking needful action.
- Checking different quality parameters of casting slabs (Micro-structure analysis, Hydrogen content, dimensional measurements).
- Finally responsible to fulfill their performance guarantee for achieving production target of 120000 MT/year.
- Post commissioning assistance and report preparation of various Aluminium downstream projects.

Present Employer: JINDAL ALUMINIUM LTD. (<http://www.jindalaluminium.com>)

Present Designation: Assistant Manager QA

Duration: May 2019 to till date

Location: Bangalore, Karnataka, India

Growth Path:

May'19 to Present: Assistant Manager QA

Highlights:

- FOUNDRY OPERATION MONITORING (METAL PREPARATION, ALLOYING, FLUXING, DEGASSING & DROSSING)
- ALUMINIUM STRIP CASTING OPERATION THROUGH **ZHUOSHEN CO. LTD.** TILTING CASTER
- COMPOSITION ANALYSIS BY **SPECTROLAB METAL ANALYZER BY AMETEK**
- VERIFYING ALLOY WISE METAL PREPARATION EACH AND EVERY ALLOY AS PER STANDARD
- ROOT CAUSE ANALYSIS OF SEVERAL CASTING RELATED DEFECTS

Roles Across The Career:

- Responsible to look after melting of ingots and process scrap for alloying of (AA1xxx, AA3xxx, AA5xxx, AA8xxx series).
- Responsible for different charge mix, proper sequence of alloy change, alloy composition and scrap management procedure.
- Responsible to look after the charge mix for alloy preparation within 7 sets of top open melting furnace and holding furnace.
- Proper sequential operation & process monitoring of total 7 no of caster (Casting machine).
- Different data analyzing before and after each metal transfer.
- Identification of different casting defects and graphical representation of several important process data to analyze root cause.
- Monitoring the **overall functioning of Quality Control & Assurance Process** which includes resolving the problems, updating them with the actions/RCA to be undertaken throughout; identifying improvement areas and implementing adequate measures to attain corporate goals/targets.

Educational Qualifications:

Level of Education	Institute, City	University	Yr. of Completion	Percentage
Class X	Bishnupur high school	WBBSE	2005	76.80%
Class XII	Bishnupur high school	WBCHSE	2007	70.16%
B.Tech in Mechanical Engineering	M.C.K.V institute of engineering	West Bengal University of Technology (MAKAUT)	2012	73.60%

Training, Seminars & Certifications:

- 1.I had undergone a seminar Programme on '**NON-CONVENTIONAL ENERGY SOURCES**' specializing on different types of non-conventional energy & its importance under Mr. Chaitanya Nandy senior professor, Department of Mechanical Engineering, MCKV institute of engineering.
2. I had undergone a vocational training on '**PRODUCTION PROCESS IN VARIOUS WORKSHOPS AT DCC**' in Dankuni Coal Complex for 4 weeks during 5thsemexposure to advanced machining, metrology and inspection.

Accolades:

- A Course training of "First Aid on Emergency" under the 'Society for General Health & Hygiene'.
- Award for championship in college Annual sports and awarded with certificate in painting from '**Bangiya Sangeet Parishad**'

Hobbies and leisure time activities:

- Playing cricket and riding bikes

Additional Information:

Date of birth – 05th September 1989

Name of father – Mr. Asish Kumar Hazra

Name of mother – Mrs. Sujata Hazra

Nationality – Indian

Languages Known –English, Hindi and Bengali

Marital status – Married

Declaration:

I consider myself familiar with mechanical engineering aspects. I am quite confident about myself and lead my team from front. I vow to give my utmost to my organization. I would surely make difference and prove my merits.

I hereby declare that the information furnished above is true as the best of my knowledge.

Anindya Sundar Hazra