



# SHAIKH MOHAMMED AMIN

PRODUCT DESIGN AND DEVELOPMENT, SIMULATION, 3D MODEL DESIGNS AND DEVELOPMENTS, REFRIGERATION AND HVAC PRODUCT DESIGN AND DEVELOPMENT.

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## DIPLOMA IN MECHANICAL ENGINEERING (2015)

MSBTE

Marks Obtained: - 73%

## N.C.V.T (2009)

MAHARASHTRA

Marks Obtained: - 76%

## DRAUGHTSMAN MECH. I.T.I (2008)

MAHARASHTRA

Marks Obtained – 71%

## 10<sup>th</sup> SSC (2006)

PUNE

Marks Obtained: - 62.63%

## LANGUAGES KNOWN

- Urdu,
- English,
- Marathi,
- Hindi,
- Arabic

Date of Birth: - 12<sup>th</sup> MAY 1991

## PROFFESIONAL PROFILE

To grow as a Commercial HVAC equipment professional by implementing my innovative approach and skills for organizational development.

## EXPERIENCE

EMPLOYER NAME	FROM	TO	POSITION
Awal Gulf Manufacturing CO.	Nov 2019	Present	NPD- PRODUCT DESIGN & DEVELOPMENT ENGG.
Zamil Industrial group - Zamil Central Air conditioner	27th March 2017	30 <sup>th</sup> Oct 2019	Products Designer
GODREJ & BOYCE MFG. CO. LTD.' Vikhroli, (Appliance Division , R&D dep't basically in Design)	14 <sup>th</sup> Nov 2011	23rd March 2017	Sr. Officer
GODREJ & BOYCE MFG. CO. LTD.' Vikhroli, (Security Solution Division, design dept.)	1 <sup>st</sup> July 2010	12 <sup>th</sup> Nov 2011	Desginer
VIJAY FIRE VEHICLES & PUMPS LTD	Oct 2009	June 2010	Trainee Mech. Designer
GODREJ & BOYCE MFG. CO. LTD.' Vikhroli, Mumbai (Appliance division,R&D department)	Oct 2008	Sep 2009	Apprentice

- CREO 5.0
- UG NX-04 & UGNX-05 , UG NX-

- MS POWERPOINT
- MS WORD
- MS EXCEL ADVANCED

- LN- INFOR
- GD & T
- OPERATIONAL EXCELLANCE

## AWAL GULF MANUFACTURING

### ➤ **New Series Development :**

- 1) Design and simulation for new unit configuration for packaged roof top unit / Ducted split unit on simulation software.
- 2) Sample unit development.
- 3) Testing as per regulations to meet desired EER as per respective regions.
- 4) Working out on Costing to present to management.
- 5) Preliminary Technical specification preparation.
- 6) Final model code release for Sales and Purchase.

### ➤ **Product Catalogue Preparation :**

- 1) Finalization of Standard and optional feature details in co-ordination with product management team and sales team.
- 2) Assist in Preparation and finalization of Technical spec. details on PDB as per rated values.
- 3) Assist in Preparation of cooling performance table.
- 4) Assist in Preparation of Fan performance table.
- 5) Assist in Preparation of Heater / Electrical details.
- 6) Assist in Preparation & finalization of GA drawings.
- 7) Coordinating for Electrical wiring diagram for PDB finalization.
- 8) Coordinating with product literature / PDB format conversion team.
- 9) PDB evaluation and approval for printing.

### ➤ **New component / Specification Development:**

- 1) Benchmarking for competitor product configuration.
- 2) Identifying the supplier / sample call / Test & Evaluation / Quotation evaluation / Spec finalization.
- 3) In-house coordination for smooth on boarding of new component development.

### ➤ **Product certification :**

- 1) Co-ordination with 3<sup>rd</sup> part testing agency.
- 2) Certification processing and documents adherence to liaise with certification body.
- 3) Test reports evaluation.
- 4) Coordinating for certification of ESMA / SASO / MEW.

### ➤ **Product technical support :**

- 1) Assist & coordinating with application team & sales team @ Product Enquiry stage.
- 2) Assist in finalization of customized requirement.
- 3) Assist and support in optional feature costing in customized requirements.

### ➤ **Product CAD engineering support :**

- Developing Design concepts and product footprints for **ducted splits** and **packaged units**.
- Assist in the Development of 1.4 kw / tr Ducted As well as packaged Model series (For Kuwait region) in the capacity of 048k/060/072k/090k/120k BTUs
- Competitor Product Benchmarking.
- 3d modelling and manufacturing drawing.
- Handling manufacturing line issues.
- Initiating Cost saving Projects.
- Research latest market demand and technology trends.
- Preparation of BOM.
- **Designing of Customised Cooling coils (DX / Chilled)** for Coil replacement business vertical.

## ZAMIL AIR CONDITIONER

### PRODUCT DESIGNER

#### Product Design

- Lead in the design of the **Ducted Split units & packaged units**, working closely with the Designers to give provision of clear guidelines, instructions.
- Developed the Customise designs for Higher Capacities **packaged units**. (ex: PTH045/035)
- Preparing footprints by understanding Customer and market demand.
- Preparing **GA drawings for HVAC units** to bid during enquiry stage.
- Preparation of BOM, preparing work orders and other design docs.
- Checking of design and its manufacturing drawings with release docs.
- Coordinate with the other product engineers of the other disciplines to ensure proper functioning of parts and systems.
- Coordinate closely with the Material Planning & Production (MPP), Manufacturing and other parties for the assembly / production of the unit(s) process job orders / resolve issues raised design errors and other similar documents to ensure smooth production and assembly of the unit.

#### Value Engineering:

- Design and recommend improvement of the product, considering cost reduction while maintaining optimal quality and efficiency, in order to obtain a higher level of net profit for the organization.

#### DESIGN DEVIATION / CUSTOMIZATION

- Evaluate the request for product customization / deviation of the Sales Team and provide recommendations on cost / quality and other possible impacts to the product unit in line with the Company standards and policies.

#### Product Development:

- Study and evaluate possible design and development of new HVAC Ducted or packaged product series / models based on the inputs received from the sales team and management.
- Coordinate in the production of the prototype of the unit / assemblies and sub-assemblies for proper testing and commissioning.
- Develop the 3d models and coordinate with BOM planner for entry in ATO models and its branches.

#### Technical Support:

- Provide a proper interface with Sales and marketing departments on issues of development, modification, enhancement and value engineering.
- Assist the sales, service and customer service departments on technical guidance and support with customer's requirements.
- Support the sales team in the presentation of the product through the preparation of the relevant documentation and other requirements (e.g. brochures, application data, detailed catalogues, O&M manuals etc.).

## GODREJ APPLIANCE R&D

### SENIOR OFFICER

#### Bottom Mount freezer Premium platform Frost Free Refrigerator

- Being Part of the research team, Benchmarked Competitor models. Visit customer house to get product feedback.
- Making B.O.M. & Preparing Design footprints
- Preparing Prototypes. Used RPT for some components.
- Checking of 3d model designs in terms of functional / Aesthetic (Fit, feel & Finish) / Reliability / Serviceability.
- Checking of 3d designs in terms of manufacturing (Injection Moulded, Casted Machined, Extrusion, Blow moulding).

- Checking of 2d drawings.
- Getting first batch sample inspection according to designs before handing over to production.
- Resolving Production line issues.

**Bottom mount Freezer section in Direct Cool Refrigerators:**

Checking & review of 3d designs.

**SPIN Refrigerator Platform:**

- Prepared design footprints as per inputs / benchmark data.
- Checking of 3d model design.
- Made new concept of packaging design.
- Evaluate functional prototype by testing as per parameters.

**Edge Digi Direct Cool refrigerator (Good design Award winning Product)**

- Made 3d model design for outer cabinet and sheet metal door as per inputs. Using UGNX 3d software.
- Checking of plastic parts, 3d designs received from external agencies.
- Preparing and releasing design documents to concern stakeholders.

**Edge Pro Direct Cool refrigerator:**

- Inspection of physical parts.
- Making modification in designs.
- Releasing design documents.

**EDGE ZX direct cool refrigerator (in new capacity)**

- Understood project Brief.
- Prepared Add-Delete list.
- Made new plastic channel designs.
- Inspection of parts.
- Being involved in product testing.

**Other than Projects:**

- Being involved in change management process.
- Product Modification suggestion from evaluation.
- Design modification evaluation.
- Cost saving Projects initiated. Two of them has been implemented which gives around 50 lacs annual savings.
- Kaizen, 5S.

## PERSONAL COMPETENCIES

- **ANALYTICAL SKILLS:** - Excellent ability to analyse.
- **LEADERSHIP:** - Extensive experience of leading teams.
- **INQUISITIVE:** - Creativity with a quest to change complex conditions.
- **INNOVATIVE:** - Extensive experience of analysis of case studies.
- **NETWORKING AND ADAPTIBILITY:** - Remarkably adaptable to people, Process and places.

I hereby declare that the information mentioned above is true to best of my knowledge.

MOHHAMED AMIN

