



JOEL SAM THOMAS KADAVIL | B. Tech. (Chemical Engineering)
CHEMICAL PROCESS ENGINEER
🌐 Bahrain

#ABOUT

- Proficient skills in reducing the manufacturing cost of chemical practices by actively participating in proper equipment utilization, design and process intensification
- Skilled in ensuring equipment processes are in place to drive safety, environmental and quality performance
- Gained knowledge of generation of scale-up engineering data for proper implementation on plant scale
- Actively perform tests to determine degree of control over variables including temperature, density, specific gravity & pressure

Professional Traits:

- Possesses analytical skills; able to figure out why a particular design does not work as planned and explore new ways of applying engineering principles
- Excellent numeracy, problem solving, time management skills with team leading & departmental coordination abilities

#WORK EXPERIENCE

Spectrometer Operator (Customer Technical Support Department- Metalurgy) ❖ Aluminium Bahrain (Alba) | Mar '18 – Feb '19

Tool handled: Spectrometer/ Quantometers



- Conducted chemical analysis of aluminium samples, maintained reporting of the same and communicated the output via LIMS and MES.
- Follow the JSP (job safety procedures) accordingly.
- Verified the accuracy and standardization by cleaning the machine's lens electrode of the Quantometers (Spectrometer) as well as verifying the internal samples (samples with standard alloy specification eg: AL 143/05, AL 452/02 etc) for correct calibration to obtain specific analysis value.
- Maintained a record of the standard sample analysis for different series of aluminium alloys.
- Changed argon gas cylinders and ensured stock optimization of the same.

#CONTACT

Phone: +973-33276230, +91-7907391078

Email: joelsamtk@gmail.com

#TRAINING

Safety in chemical industry
Indian Institute of Chemical Engineers, Chennai

#TECH SKILLS

C ▲ C++ ▲ MS-Office ▲ Internet Applications ▲ MES ▲ LIMS

#FUNCTIONAL SKILLS

Plant Operations ▲ Process Development ▲ Equipment Design & Calibration ▲ Management Reporting ▲ Operation Validation ▲ Team Coordination

#ACADEMICS

2015
B. Tech. (Chemical Engineering)
Sathyabama University, Chennai

2011
Higher Secondary
Ebenezer International
Residential School, Kerala

2008
Senior Secondary
Believers Church Residential
School, Kerala

- Analysed aluminium samples at different levels of process operating and different alloys
- Participated in efficient usage of Quantometers including initial stage, after fluoride treatment, during casting, after casting and more.
- Worked on analysis of different alloys: billet (6000 & 1000 series eg: 6063.10, 6063.01, 1070.01 etc) foundry alloys- standard and properzi (4000 series- 4543.10, 4543.12 etc) and rolling slabs (1000, 3000, 5000, 8000 series etc).
- Cleaning of the quantometers and proper disposal of the waste.

Intern

Fertilizers And Chemicals Travancore Limited | May '17 – Nov '17



Plants worked across: New Ammonium Sulfate Plant | Sulfuric Acid Plant | Phosphate Plant | ANONE Plant | HYAM Plant | Caprolactum Plant (monomer of nylon 6)

Unit Operations: Distillation | Stripping | Evaporation | Extraction | Hydrogenation | Ion Exchange | Adsorption and Absorption

- Monitored plant regular operations and developed distillation simulation to check normal operation of plant
- Looked after shutdown of plant during emergency and involved in modifications in improving existing plant competency
- Oversaw waste water & effluent treatment plant employing aerobic and anaerobic process

LINGUISTIC SKILLS

English | Hindi | Malayalam
| Tamil | French

#PERSONAL DOSSIER

Date of Birth: 6th July 1991

Address:

Current Address: Flat 52, Bldg 260, Road 4109, Block 941, Al Buhair, Riffa.

Permanent Address:

Kadavil House, Kallissery P.O., Mazhukeer, Alappuzha, Kerala, Pin Code: 689124

Marital status: Married

Driving License:

Bahrain- Valid till 27th Jan 2024

India- Valid till 18th Aug 2035