

ARCHANA A R

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Career Objective:

To work for an organization this provides me with an opportunity to improve my skills and knowledge to grow along with the organization by fulfilling its objective.

Work experience:

- **One year six months** work experience as a *junior R&D and QC engineer* at **SURFA COTAS INDIA PVT.LTD.**
 - **One year** work experience as a *process Engineer* at **AEROTREATMENTS PVT.LTD**
 - From **December 2022** (currently working) at **TATA Electronics Pvt. Ltd** as a *Engineer II (NPI in Anodizing)*
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Roles and Responsibilities:

❖ **ENGINEER II (NPI) @ TATA Electronics Pvt.Ltd**

- Working on New projects ANODIZING, NE-AT (Nitrate Etching and Anodizing Treatment) and VI (Vacuum Impregnation)
- Knowledge on fixture design based on part design
- Working on chemical polishing, anodizing and dye
- Preparation of SOP, chemical analysis, line maintenance, bath changing frequency documents based on the qualification Trials.
- Developing process sheet based on current, time, anode cathode ratio, concentration, pH to increase the yield (continuous trials).
- Knowledge on quality parameters (gloss, thickness, color, adhesion, Rock tumble test), Failure analysis & RCA
- Knowledge on SCADA, CNC, shotblasting and surface finishing.

❖ **Process Engineer (NPD) @ AEROTREATMENTS Pvt.Ltd**

- Major customers: AIRBUS, BOEING, THALES & RR
- Major process: Anodizing (TSA & BSA), Chemical conversion coating (alodine 600, alodine 1200S, Surtec 650, Surtec 560), passivation, Zn-Ni Plating (AIRBUS & BOEING) & Titanium Anodizing and etching, NDT (CT, FPI & MPI), painting application & partmark
- New product Development-Qualifications, specification, TDS review, qualification plan (QP) preparation, documents (SOP, solution and periodic analysis) and report preparation.
- Qualifications: THALES paint qualifications, RR (IAMPL) Etching qualification and SFO

aluminum coating

- AIRBUS, BOEING THALES and RR specification review, Monthly portal review, DCR generation, gap analysis, impaction analysis & consumption matrix.
- Create the FAIR (First Article Inspection Report), PS (Process Sheet) and MRS (Master Routing Sequence) through ERP.
- preparation of periodic and solution test matrix as per specifications.
- Preparation of periodic reports/solution analysis with all quality requirements as per Specifications/SOP (corrosion resistance test, salt spray chamber, adhesion, coating weight, solvent resistance, thickness, water immersion test, autotitration).
- Maintenance of baths chemical concentration within the specification limit using SPC chart.
- Analysis of Zn-Ni plating chemicals and plating thickness using XRF
- Audit Knowledge: NADCAP, BAA, DTL, ISO & EHS

❖ **Junior R&D and QC engineer @ SUREA COTAS INDIA PVT LTD.**

- Major Products: water & solvent base paint, royal enamel, anti-corrosive coatings, primer topcoat, crystal primer
- Generation/preparation of new paint (water base and solvent base) in pilot scale
- Raw material inspection/analysis
- Quality inspection- thickness, viscosity, specific gravity, gloss, tinting strength.
- Generation of batch card for production based on trial data,
- Document maintenance.

SKILL SETS:

❖ **Technical:**

- Basics of C language, MATLAB & LYNX
- SAP and ERP
- MS word, excel & powerpoint

❖ **Soft skills:**

- Teamleader
- Teamworker
- Good listener
- Innovative
- Being calm

TRAININGS UNDERGONE/WORKSHOP ATTENDED

- **Feel employable training** program conducted by CLHRD Mysore in SIT
- Work shop on “**Entrepreneurship Development**” organized by SIT college
- **SOFT SKILLS** program organized by placement department of SIT

- 2months **Industrial training** completed at SAMI LABS LIMITEDKunigal.

EDUCATIONAL QUALIFICATIONS:

COURSE	INSTITUTION	BOARD	CGPA / % Marks obtained	Year of passing
BE (chemical)	Siddaganga Institution of Technology	VTU (Belgaum)	8.61	2020
PUC (12 th)	Vidyavahini pre university college, Tumkur	Karnataka state	89.83	2016
SSLC (10 th)	Govt. High school, Brahmasandra	Karnataka state	86.6	2014

PROJETCTS UNDERTAKEN:

- **MINI PROJECT:**Synthesis, fabrication, and characterization (Optical properties) of cerium zirconate polymernanocomposites.

Description: Synthesis of metal oxide nanoparticles using **sol-gel** method, Fabrication of polymer filmswithmetaloxidenanoparticles.CharacterizationoffillerandpolymerfilmsusingXRD,SEM.

Applications: solar, diodes and sunscreen applications

- **MAJOR PROJECT:**Ground water recharge with reclaimedwater

Description: Identify the source of wastewater and pollutants. Treat the waste water using suitable biological method (multiple fermentation tube method) to identify the ecoli forms and to meet the standard specifications and recharge the treated water via recharge well method.

Roles and Responsibilities: Develop the ground water quality in low cost.

CO-CURRICULAR ACTIVITIES:

- Participated in paper and poster presentation in Dayand sagar and SITcollege
- **Industrial visit:** SAMI LABS kunigal, RK JOHNSON INDIA PVT.LTD & VAHINI PIPES Tumkur.

HOBBIES:

- Badmintonplayer
- Listing tomusic
- Watchingmovies

- Basic embroiderywork
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PERSONAL DETAILS:

Date of Birth: 21/07/1998

Father Name: Raganathappa

Mother Name: Lakshamamma

Languages known: Kannada, English & Hindi

DECLARATION:

I here by declare that the information stated above is correct to the best of my knowledge and I hold the responsibility for any disparity found.

Place: Tumkur

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