



RAM ■ PRASAD L V

TEACHER ■

SCIENTIST ■

INVENTOR ■

HOLDER OF 5 PATENTS ■



AWAKENS THE ENGINEER IN YOU

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## PROFESSIONAL SUMMARY

- Overall 20 plus years of experience in Product Design & Development, with Multinational and Indian Companies.
- Five (5) patents filed in the fields of Appliances, Renewable Energy.
- Trainer for co-employees, new-joinees on product technology, on basics of Refrigeration & Air-Conditioning etc.
- Undergone training on Product Design Techniques at **SANYO, Japan**.
- Design experience with a wide range of products: Refrigerators, Cold chain products, Automobile A/C, Heat pump systems.
- Implemented an integrated Product Development approach by interfacing R&D with production, service & marketing departments.
- Product cost optimization through Bench marking & Value Engineering techniques.

## SKILLS

- Product Technology Innovation - conceptualization to building proto models for testing & demonstration
- Product Design & Development - converting market requirements into product features
- Proficiency in teaching Refrigeration & Air-conditioning subject to experienced engineers, new joinees and to college students
- Refrigeration system balancing - for Refrigerating systems and Automobile AC's
- Resolution of field & process issues

## ACADEMIC

- M.Tech. - Thermal Engineering with specialization in Refrigeration and Air Conditioning, JNTU College of Engineering, Anantapur - 1993
- Seminar - Study on Domestic No-frost Refrigerators
- Project Work - Study & design of Air Conditioning System for Hospital
- B.Tech.- Mechanical Engineering, Kakatiya University, Warangal

## MAJOR ACHIEVEMENT

- Break-through Innovations : Refrigerators with warm compartment, self-cleaning lint filtration system for clothes dryer
- Achieved cost reduction through value Engineering consistently
- Solved critical process related issues for improving productivity and reducing line rejections and field failures

## PROFESSIONAL EXPERIENCE

- Present : Founded R&AC Academy for sharing my industry experiences and learnings with the fraternity of mechanical engineers in a formal and systematic manner, using
  - Workshop on R&AC systems.
  - Webinars & lectures for the members of ISHRAE & ASHRAE.
  - 18 lectures on YouTube – 10 on Refrigeration and 8 on Psychrometry are kept available in public domain.
  - “R.I.P.E.” program for mechanical engineering students.
  - “R.I.P.E. for Professionals” program for working mechanical engineers, irrespective of their field of operation.

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College : CMR Technical Campus  
Location : Hyderabad  
Position : Asst. Professor  
Duration : From Dec, '16 to May,'17

### **JOB PROFILE:**

- Taken classes for the subject Refrigeration & Air-conditioning for 3rd year second semester students.
- Provided project guidance to final year students on Vapor Absorption Refrigeration System.

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Company : Solar Aided Innovative Systems Private Limited  
www.solarinvs.com  
Location : Hyderabad  
Position : Co - Founder  
Duration : From Oct, '14 to Sept,'16

## JOB PROFILE

- Partnered patented technology development in the field of Renewable Energy based on Organic Rankine Cycle (ORC)
- Built proto model for technology demonstration through own funds

## ACHIEVEMENTS

- Filed two technology patents  
[1] WO2014/033506A1, 2) Patent Application No: 1343/CHE/2015]
- Installed field unit and operated completely off grid, using solar thermal power

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Company : GE India Technology Center

Location : Bangalore

Position : Senior Engineer

Duration : From Dec, '06 to Oct, '14

## JOB PROFILE:

- Execution of "appliances innovation" projects and meeting the project requirements.
- Development of "conceptual models" and building proto type models to prove functional performance.
- Regular interactions with the "stakeholders" at GE Appliances, USA for timely completion and transition of projects.

## ACHIEVEMENTS

- Refined drying cycle of existing clothes dryer and achieved 16% of energy savings without any increase in raw material cost - Patent granted (Patent Number: US8991068B2)
- Designed heat pump system for clothes dryer and demonstrated 40% of energy savings on product
- Conceptualized Self-Cleaning Lint filtration system for clothes dryer and designed the system to package in an existing unit to demonstrate functional performance; units were under testing at GE Appliances, USA - Patent granted (Patent Number: US9920469B2)
- Conducted internal product technology sessions - on Clothes Washers, Clothes Dryers and Refrigerators
- Redesigned spin filters used in locomotive ventilation systems for better packaging

Company : Subros Limited  
Location : Noida  
Position : Senior Manager  
Duration : From May, '05 to Dec, '06

**JOB PROFILE:**

- Design & development of Heating, Ventilation & Air-Conditioning (HVAC) System for automobiles.
- Vehicle testing & data interpretation for performance bench marking.

**ACHIEVEMENTS**

- Established process for Thermal Computations and System selection.
- Timely execution of the HVAC project for Mahindra's XYLO model.

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Company : Voltas Limited  
Location : Hyderabad  
Position : Senior Manager  
Duration : From June, '02 to May, '05

**JOB PROFILE:**

- Product Design & Development - for cold chain products.
- Customer interactions - to understand their needs and to convert the same into specifications.

**ACHIEVEMENTS**

- Implemented an integrated Product Development Approach by involving production, service & marketing departments from concept stage to product launch.
- Achieved cost reduction through system optimization in Freezers.

Company : BPL Refrigeration Limited

Location : Bangalore

Position : Manager - R&D

Duration : From Nov, '93 to Sept, '00

#### **JOB PROFILE:**

- Product Design & Development - for No-Frost & Direct cool Refrigerators.
- Leading of cross functional teams for value engineering & for the resolution of product problems.
- Field visits to conduct technical trainings and product awareness sessions to service personnel.

#### **ACHIEVEMENTS**

- Design & Development of Refrigerator with Warm Compartment by conserving the heat from the Condenser. It's the first Design Patent filed by BPL group (Patent Number: 198236).
- Design & Development of "Quick Freeze Tray"- a New Ice Cube Tray to reduce the ice forming time by 40%.
- Solved critical process related problems for improving productivity and reducing line rejections and field failures.
- Designed Air Duct Systems for improving the performance of refrigerators (originally designed by SANYO) to suit Indian climatic conditions.
- Designed 200ltr, 2-door direct cool model with concealed Roll-Bond Evaporator, first of its kind in INDIA. This design not only reduced the Raw Material Cost but also improved Performance and Productivity.