DR. PRAMOD S. JOSHI

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BACKGROUND SUMMARY

- 21 years' experience, 9 ½ years in Industry and 11 ½ years in Teaching.
- **Professor and Head of Polymer Engineering Department** in affiliated college of SPPU, Pune for 11 ½ years. Led the system for accreditation.(NBA) twice.
- Took special interest in developing teaching modules at under graduate and post graduate level for **Mechanics of Composites, Processing and Testing of Composites.**
- Experience of **9 years with Plastic Machinery Manufacturer, DGP Windsor India Limited,** dealing with design, service and marketing of injection moulding machines, blow moulding machines.
- Established Application Engineering Department in 1995 at DGP Winsor and was solution provider for new business development. Worked as technical support and service.
- Worked as trouble shooter for processing problems for plastic processors.
- Designed injection unit and specifically screw/barrel systems. Established systems for manufacturing of screw barrels.
- Looked after the marketing department for couple years.
- **Special key experience of PVC injection moulding fitting experience. Made special PVC/CPVC machines for processors.**

Key skills: Polymer Processing (Injection molding, blow molding and extrusion) Compounding, Composites Systems, Analysis and Mechanics of Composites, Process simulation. Business development, Application Engineering, New product development.

TEACHING EXPERIENCE (2004-2016)

- Directly recruited as **Professor** in Polymer Engineering in July 2004. Approved research guide of SPPU.
- As Professor and Head of the Department of Polymer, led the team of 18 faculty members and 18 support staff with student strength of 240.
- Taught undergraduate course of B.E.(Polymer Engineering) and Post Graduate course of ME (Polymer Engineering) and led research center.
- Designed the undergraduate and post graduate course structure and syllabus.
- Led the department successfully for Accreditation.(NBA)
- Felicitated by the Institute as **Ideal Teacher** and is approved research guide.

SUBJECT INTEREST:

Polymer Rheology: Developed modules for teaching rheology. Polymer Processing and compounding: Injection, blow, extrusion, thermoforming and other processing techniques.

Product Design and Polymer testing, Mechanics of Composites: Mechanics of composites is being taught by me for last eleven years at undergraduate and post graduate level.

INDUSTRIAL EXPERIENCE:

1. **DGP Windsor India limited, Thane. (Formerly Klockner India Limited Manager-Application Engineering, 1995-2004**

- New Application development in the form of complete viable economic project by integration of mould, machine, material and processing techniques. Developed markets for chair, cable ties, household as well as engineering applications.
- Handled retrofitment business from sales, design, and manufacturing to execution stage for any injection machines of domestic as well as international make.
- Design of injection unit side of injection molding machine and development of screw/barrel, die head assembly for blow molding machines.
- Handled service function for polymer processing for the organization.
- Conceptualization of new machine models and control logic software development for all the machines.
- Trouble shooting of processing problems of processors of Injection and Extrusion blow moulding.
- Specification determination of Injection and Extrusion blow moulding machines to suit requirements of the application.
- R and D interface with customers for development of new models of Blow molding machines and injection molding machines through conceptualization of SPM for specialized products.

Skill set

Design of screw/barrel systems:

- Numerous new extrusion screws have been designed using simulation software (SPAR – Tadmore- Klein model) successfully for higher output and lower energy consumption for various Injection moulding machines in the diameter range of 34 mm to 150 mm diameter.
- The designs have been highly successful in improving the productivity of the machines by way of reduced use of color master batches and improved output and hence lesser cycle time.
- The various types of designs from conventional to barrier types with several types of mixing zones have been standardized. Special designs like grooved barrel and barrier as well as wave type screws have been made and implemented.
- Other than universal screws, material specific screws have been designed and standardised for various models of machines. Some of the material specific series introduced are SPVC, RPVC, Polyolefins, Polycorbonate (flame retardant grades) and PET.
- Special experience in PVC/CPVC

Trouble shooter of processing problems:

- Solutions for processing problems through design modifications of hydraulic circuits and logic modification of software and mechanical system improvements.
- Failure analysis of mechanical components and solutions through design modifications.
- Solutions through integration of mould, machine and material specifications.

2. **Mather and Platt India Limited, Bombay- Trainee Engineer** in Project Engineering as Graduate Trainee- 1989.
3. **Mafatlal Engineering Limited :** Apprentice Engineer on shop floor, 1988.

INDUSTRIAL TRAINING

MASTERS DEGREE: M/s Brite Brothers at Mumbai.(MAY-JUNE 1992)

Company specialization: Injection and rotational moulding.

BACHLORS DEGREE: Crompton and Greaves, Transformer division at Mumbai.(1988)

Company specialization: Design and manufacture of Industrial transformers

Project: Scheduling in job production.

INDIAN TOOLS LIMITED: shop floor training (1987)

Company Specialization: Design and manufacturing of cutting tools like drills and milling cutters.

XLO INDIA LIMITED at Thane in Design Department (1986)

Company specialization: Design and manufacturing of Special Purpose Machines (Boring machines)

SUMUTOMO HEAVY INDUSTRIES, JAPAN: For specialized injection moulding processes for optical products and training for simulation of screw/barrel design. Training was part of technology transfer.

EDUCATION

June 1995 - Ph. D. (Technical) in Plastic Engineering, University Department of Chemical Technology, University of Bombay, Mumbai.

Dissertation: Studies in centrifugal composite casting and Composite Theory.

June 1992- Master of Engineering (Plastic Engineering), University Department of Chemical Technology, University of Bombay, Mumbai.

Dissertation: Centrifugal composite casting for making reinforced pipes and to test the same.

May 1988: Bachelor of Production Engineering, Victoria Jubilee Technical Institute, Mumbai-400019

Dissertation: Scheduling in job production and optimization techniques.

PERSONAL DETAILS

Date of Birth	: 29th March, 1965
Nationality:	: Indian
Hobbies	: Avid reader
Languages known:	: English, Marathi, Hindi
Language (Speak only)	: Kannada

11th June 2016