

SANTOSH BHAT

232, Nagogami Terrace, Rolla, Missouri -65401
<http://www.umr.edu/~design/santosh.html>

Cell: 573-647-1667
Email: sgbr53@umr.edu

SUMMARY:

- Masters in Engineering Management from University of Missouri-Rolla with emphasis on Quality Engineering and bachelor's degree in Mechanical Engineering. Research Experience of two years involving engineering design.
- Four years of hands-on experience in the areas of detailed engineering, project management, maintenance and plant operations.

OBJECTIVE: Seeking a challenging career utilizing my education, skills and work experience.

EDUCATION:

University of Missouri-Rolla Master of Science in Engineering Management	Grad – Dec.'03 GPA – 3.75 / 4.0
Bangalore Institute of Technology, Bangalore, India Bachelor of Mechanical Engineering	August 1997 GPA – 3.7 / 4.0

WORK EXPERIENCE

University of Missouri-Rolla Graduate Teaching/ Research Assistant	Rolla, Missouri Sept. 2001- date
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- Organizing, grading, teaching, website hosting, digitizing coursework for courses in Quality Engineering, TQM, Engineering Optimization and Reliability Engineering.
- **Masters' Thesis – Robust Design of Automotive Braking Systems**
Advisor – Dr. K.M Ragsdell, Professor and Assistant Chair, Engineering Management, University of Missouri-Rolla
 - Developed a modern automotive braking system simulation using JAVA 1.4. The software is used for designing automotive braking systems from end to end, including ABS systems. The system's features include Taguchi Methods for analysis, federal requirements and using design specifications of existing vehicles to design new robust designs. The other phase of the project is to design a robust pedal linkage for General Motors medium duty truck (GMT540).
 - Concepts / Tools used: Taguchi Methods, Mechanical Engineering Design, Kinematic Analysis, Design of Experiments, Vehicle dynamics, JAVA 1.4, Rational Rose, MATLAB, Pro-E.

Buhler India Limited Project Engineer	Bangalore, India Jan.'01 – July'01
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Buhler AG is a world leader in the food processing equipment industry. (<http://www.buhlergroup.com>).

- Major Project - KRBL Limited, Delhi, India – Brown Rice Reprocessing plant (10 Tonnes /Hr)
 - Detailed Engineering- Developed specifications for Rice Processing Machines and bought out equipments.
 - Developed plant layouts, aspiration ducting drawings. Sizing of material handling equipment such as chain conveyors, bucket elevators and screw conveyors.
 - Responsible for vendor selection for bought out equipment and sub-contractors for on-site work. Developed project schedule and budget.
 - Interfaced between the customer and the various operating departments. Monitored the progress of the project.

Fletcher Pioneer India Limited Project Engineer	Bangalore, India Mar.'00-Dec'00
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Fletcher Pioneer is now a part of RMC group of UK.

- Project Management – Involved in vendor development, project financials, plant layouts and resources estimation for two Ready-Mix Concrete plants in India.
- Developed two Capital Expenditure Proposals for business expansion.
- Involved in re-engineering of existing business processes like bulk material handling system, fueling stations in particular. Initiated system improvement tools to improve productivity of plants and reduce operating costs.

- Operations - Assisted the operations team on preventive and breakdown maintenance of plant machinery like concrete Mixer, cement handling system and Concrete Pumps. Scheduled jobs and inspection at sites.

Briggs of Burton (India) private Limited

Project Engineer

Briggs is a UK based Multinational (<http://www.briggsplc.co.uk>).

Bangalore, India

Sept. '97- Feb. '00

Projects: Involved in about 8 projects which included turnkey, Retrofits and annual maintenance projects.

- Baron Breweries, India – Complete Greenfield Turnkey Project (worth Indian Rupees 140 Million)
 - Completed PFD, P& ID, and initial designs for brewhouse, unitanks, and filtration plant.
 - Developed specifications of utilities like water treatment, boiler, air-compressor and refrigeration plants.
 - Completed all G.A drawings of the process equipment, plant layouts, piping drawings. Finalized calculations of process equipment and utilities.
 - Completed the project schedule, vendor selection and estimation and initiated project controls.
- Mangalore Breweries, India – 165 HL brewhouse with dry goods handling section (worth Indian Rupees 18 Million)
 - Successfully erected, installed and commissioned the brewhouse which included stainless steel vessels, material handling equipment and other process control instruments.
 - Successfully completed testing of pressure vessels and steam jackets, process and utility piping erection.
 - Worked on Siemens S7 PLC.
 - Trained plant personnel and responsible for handover. Handled the post-handover phase of the project.
- Maharashtra Distilleries Limited, India
 - Executed the annual maintenance contract and plant audit of malt spirit plant involving major modifications of bulk material handling equipment.
 - Responsible for the change of the plant control system from Siemens Micro-10 PLC to S5.

SKILL SET

Professional Training /Workshops:

- Piping Engineering – Indian Institute of Technology, Mumbai, India.
- Supply Chain Management and Lean Manufacturing –Missouri Enterprise, Rolla, Missouri.
- Boeing Production Systems, University of Missouri-Rolla.
- Advanced Hydraulics and handling of Concrete Pumps- Schwing Stetter, Bangalore, India.
- AutoCAD R2000- AutoDesk, Bangalore, India.

Skill Set:

- Programming: Java 1.4 (J2SE) ,C, MATLAB, Rational Rose
- Web Page Tools: Dreamweaver, Flash, HTML.
- Desktop tools: MS office suite
- Project Management tools: MS Project
- CAD tools: AutoCAD2000, Pro/E 2000 i².Exposure to process engineering CAD tools- Caesar II, PDMS.
- Statistical software: S-Plus

ADDITIONAL INFORMATION

Course work (Masters')

- Quality Engineering -Quality Engineering, Six Sigma, Engineering Optimization, Statistical Data Analysis, Probability and Statistics.
- Industrial Management – Production Planning and Scheduling, Integrated Product/Process Development, Strategic Management, Engineering Economics and Industrial Marketing.

Conference Paper:

- “New Product Development and Supply Chain Management” at the International Conference of Production Research (ICPR '02 - with Dr. K.M Ragsdell and Mr. Amit Patil).

References: Available on request