S. UMESH BABU
Research Scholar (Ph.D)
IIT Kharagpur
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Career Objective: - To reach such a challenging and rewarding position as a Researcher or/and Engineer that demands me to apply my entire intellectuality and to retain my identity in the society by achieving the summit of perfection in my duties and responsibilities.

Present Status: - Pursuing research as a Research Scholar at **Indian Institute of Technology Kharagpur** since July 2003.Presently I am in second year of my research and fulfilled the necessary course requirements for Ph.D degree.

Research Problem: - To investigate how **Recurrent Neural Network** techniques can be implemented for optimizing various sensor node activities in **Wireless Sensor Networks** environment, thus enhancing the autonomy and adaptation of **Mobile Robots**.

Research Interests: - Intelligent Systems, Wireless Sensor Networks, Mobile Robotics, Recurrent Neural Networks, Computer Networks, Distributed Systems

Academic Records:-

Degree	Institution/Place	Year	%Marks	Division
M.Tech (Computer Integrated Manufacturing)	National Institute of Technology-Warangal (NIT WARANGAL)	2001-2003	73.52	First (Distn.)
B.Tech (Mechanical)	Kakatiya Institute of Technology-Warangal (KITS WARANGAL)	1998-2001	72.20	First (Distn.)
Diploma in Mechanical Engineering	Vemuganti ManoharRao Polytechnic-Warangal (VMR Polytechnic Warangal)	1995-1998	79.70	First (Distn.)
Intermediate (M P C)	Pragnya Junior College, Hyderabad	1993-1995	67.50	First
S S C	Singareni Collieries High School-Godavari Khani	1992-1993	68.50	First

Courses in Ph.D: Intelligent Machines and Systems, Computer Communication Networks, Wireless Communications and Networking, Digital Signal Processing and Applications

Courses in Masters: Systems Approach to Computer Integrated Manufacturing (SACIM), Computer Aided Design and applications, Mechatronics, CNC & Robotics, Quality Engineering for Manufacturing (QEM), Product Design for Automated Assembly (PDAA), Finite Element Method (FEM),

Performance Modeling and Analysis of Manufacturing Systems (PMAMS), Integrated Production Control Systems (IPCS), Enterprise Resource Planning (ERP).

Software Skills: Languages: VC++, MFC, C++, C, PASCAL, and FORTRAN

DBMS: Oracle, MS Access

Packages: MATLAB, Auto CAD, Auto LISP

OS: Windows, LINUX, TinyOS (OS for Sensor Networks)

Modeling and Simulators: TOSSIM, Auto MOD, Pro Model, SLAM

Additional Skills: Computer Hardware and Networking skills, Embedded Systems

Project Works: **M.Tech:- Development of knowledge based Process Planning System for Prismatic Parts:-** Developed an Integrated Package which considers most of the process planning activities (Generative) for producing a process sheet for prismatic parts in any Automated Industry using built in Knowledge Base.

B.Tech:- A Heuristic Approach for Grouping and Placement of Machine Cells in Cellular Manufacturing: - Developed a Heuristic Algorithm for reducing the Total Transportation Cost in Manufacturing Industry in Cellular Manufacturing Environment using Group Technology principles.

Industrial Experience: Industrial Training at Hyderabad Industries Limited, Hyderabad for a period of eight weeks as a part of Masters Degree requirement. Gained hands on experience on AutoCAD2000i in designing and drafting of various machinery parts of automated asbestos sheet industry.

Job Experience: Worked as **Lecturer** at NIT Warangal for six months in year 2003

Job Profile: Handled following courses/labs: Industrial Management (Theory) for final year B.Tech students, Computer Integrated Manufacturing Laboratory for M.Tech CIM and CAD/CAM Laboratory Engineering third year B.Tech students, Graphics Science (Theory and Practical) for first year B.Tech students.

Personal Details: Full Name   : Soppari Umesh Babu
Father's Name   : S.Nagappa
Date of Birth   : 08–10–1977
Age   : 27 yrs.
Sex   : Male
Marital Status   : Unmarried

Languages Skills: English (R/W/S), GERMAN (learning), Hindi (R/W/S), Telugu (R/W/S)

Contact Information:-

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References:
Here are two eminent professors for reference from Indian Institute of Technology Kharagpur, INDIA.

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Chair Professor for Innovations Lab (iLab),
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