

Vikranth Prabhakar Kanave

BSc, PGDiploma, MSc

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Availability: Immediate

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OBJECTIVE

*Interested to pursue my career as **embedded engineer** in a good organization, holding a responsible position which would enhance my skills to work in a competitive environment, bringing new outputs to real life & carve a winning edge for the organization*

EDUCATION

2007-2008

University of Sussex, Falmer Brighton

MSc in Embedded Digital Systems- Grade 2:1 (Merit)

- ✓ Core modules included in this course: Real Time Embedded Systems Theory and Practical successfully completed on MilCAN Microcontroller board based on **Embedded C** programming, Digital Signal Processing (Advanced) Theory and Practical. Practical problems based on **Matlab** programming successfully completed
- ✓ High Level IC Design Theory and Laboratories exercise based on **VHDL** programming successfully completed, Advanced Microprocessor Theory and Laboratories exercise completed on Etrax100 microprocessor board based on **C** programming
- ✓ Under took optional modules comprising includes: Mobile and Satellite Communication, Advance Network Technologies, Advance Digital Communication and Fiber Optic Communication Theory and Practical

2006-2007 One Year PG Diploma in Embedded Systems, INDIA, Grade:-A (Distinction)**

2003-2006 BSc in Physics, Mathematics, Electronics, INDIA Grade – Merit (2:1)

AREA OF INTREST

Embedded engineer, programming in VHDL, C, EMBEDDED C, MATLAB/SIMULINK/IMAGE PROCESSING

TECHNICAL SKILLS

LANGUAGES	OPERATING SYSTEMS	OTHERS
VHDL	WINDOWS 95,98,2000	TIME MANAGEMENT
C	WINDOWS XP	LEADERSHIP QUALITIES
EMBEDDED C	MICROCONTROLLERS USED	MANAGEMENT SKILLS: EXCELLENT TEAM BUILDING
MATLAB/SIMULINK	MILCAN,ATMEL 89C51,PIC16F84A,8051	TARGET ACHIEVEMENTS
HTML	MICROPROCESSORS	RELIABILITY, HONESTY & POSITIVE
NETWORKING	8085,8086,ETRAX 100LX	ORGANIZING CAPABILITY

ADDITIONAL QUALIFICATION

EMBEDDED SYSTEMS DEVELOPMENT: I have successfully completed this course in Technology Based Entrepreneurship Development Program conducted during June & July 2006

'C' PROGRAMMING: I have successfully completed this programming & secured "A" grade

WEB DESIGNING: I have successfully completed this course certified by "ARENA MULTIMEDIA" which includes: 3D Max, flash, Photoshop, after effects, HTML

PROJECT DONE IN MSc - MOBILE ROBOT EMPLOYING ARTIFICIAL VISION FOR ROUTE NAVIGATION: GRADE- Distinction (72%)

Fourth generation mobile robot is designed using *Lego Mindstorm* kit that employs the images acquired from an on-board camera and pattern recognition software to navigate the robot towards objects placed at location on a pre-determined route. **Optical Pattern Recognition Techniques, match and MACH filters** employed was employed in this project to achieve the desired goal. The robot is navigated via the specified route to the recognized object. The developed software algorithms are done in MATLAB 7.04 version which supports Image Processing Toolbox. The robot navigated along the path successfully avoiding any route obstacles to the desired object. Object recognition techniques in spatial and frequency domain were used. First, **Match filter** was applied in the spatial domain and, then, **MACH filter** was applied in the frequency domain for manipulating the correlation plane peak of the recognized object. The parameters used are " α " for average correlation height, " β " for average correlation energy and " γ " for tuning the background. By choosing different values of " α ", " β " and " γ ", one of the parameter can control OT MACH filter's behavior to suit different applications as required. By controlling these parameters the **MACH filter** can be adjusted to the specified application which for our project was to recognize the true-class object within a cluttered scene and navigate to the recognized target.

PREVIOUS PROJECT WORK

Stop-Clock Using Atmel 89C51 Microcontroller & Single Line Alphanumeric LCD Display (Group project, my task was the hardware development)

DTMF Control Home Automation using PIC16F84A Microcontroller (using mobile phone)

WORK EXPERIENCE

2003-2007 MOBILE SHOWROOMS (MULTI BRAND HANDSETS)

Sales Manager (May 2004 – July 2007)

Assistant Sales Manager (June 2003 – Feb 2004) and repairing mobile phones

PERSONAL SKILLS AND INTERESTS

- Playing cricket, volley ball, snookers, bowling; occasionally go swimming and playing foot ball
- Drawing and painting (*Oil painting, water color painting and pencil sketch*)
- Taking photographs of nature, animals and birds
- Listening to music (*Rock and Melodious music*)

REFERENCES

References are upon request