

PANKAJ RATHOD

EDUCATION

2004 – 2006 [RWTH- Aachen](#) (Aachen University of Technology), Aachen, Germany.

M.Sc. Biomedical Engineering.

1999 – 2003 University of Pune / [Pune Institute of Computer Technology](#), Pune, India.

B.E. Instrumentation & Control (GPA = 3.4).

TECHNICAL SKILLS

- Languages: C, C++, VB - 6, Assembly languages 8051, 8086, 8087, MSP430.
- Applications: MATLAB, LABVIEW 7.1, EAGLE, R (statistical s/w).
- Programmable Logic Controller- Allen Bradely (SLC500).
- Operating Sytems: Win 95/98/2000/XP.

WORK EXPERIENCES, SEMINARS and PROJECTS

- **Master Thesis:** - (April 2006 – Till date) [Carl Zeiss Meditec AG](#), Jena, Germany.
Title
“Development of a system for confocal detection of Photo-disruption defects in a transparent material effected by ultra-short Laser pulses”.
Responsibilities/ Contributions
Development of hardware and software for achieving SPI interface between C8051F060 micro-controller and TMC 236 motor driver to control stepper motors.
Development of potential applications using this system.
- **Student Co-worker:** - (December 2005 - March 2006) [Institute for Semiconductor Technologies \(IHT\)](#), Aachen, Germany.
Responsibilities/ Contributions
Developed modules for creating Laser Beam profiles using Labview.
- **Internship:** - (Aug 2005- October 2005) [Carl Zeiss Meditec AG](#), Jena, Germany.
Responsibilities/ Contributions
Developed an algorithm for Laser Beam Pointing Control System for a Refractive Surgery project. Developed a Patient Bed Simulation program using Labview. A Labview program for Laser Beam Profile Calculation was also implemented.
- **Student Co-worker:** - (May 2005 - July 2005) [Edgewave GmbH](#), Aachen, Wuerselen, Germany.
Responsibilities/ Contributions
Developed software modules using C++ for controlling various parameters in a certain Laser application.

- **Student Co-worker:** - (Nov 2004 – April 2005) MEDIT, Philip's research department, Helmholtz Institute, Aachen, Germany.

Responsibilities/ Contributions

Developed software modules for stepper motor control using MSP430 processor required for a certain Biomedical applications.

- **Trainee Service Engineer:** - (Dec 2003-Feb 2004) Diagnostics Division, Nicholas Piramal India Ltd., New Delhi, India.
- **Bachelor Project:** - Mahavir Products Ltd., Pune, MH, India.

Responsibilities/ Contributions

Acquisition of various process parameters by dialing the modem through 8051 processor & storing them in database using VB-6 at its front end.

- **Seminars:** -
 - Hybrid Control Systems, PICT, Pune.
 - Materials used for Stent Implants, RWTH, Aachen.
 - DNA Microarrays, RWTH, Aachen.

ACHIEVEMENTS

- Silver Medal in 3rd year of Engineering at PICT, Pune, India.
- Represented for Taekwondo at State level, Mumbai, India.

EXTRACURRICULAR ACTIVITIES

- Member of core-organizing committee of "INSTRUTECH", the University level competition of Instrumentation & Control students in Pune University.
- Member of the core-organizing committee of "Impetus & Concepts 2002", the annual national exhibition and competition of final year student projects in Computer Science, Electronics and Instrumentation departments.

HOBBIES

- Cricket, Chess, Swimming
- Trekking

PERSONAL DETAILS

- Full Name: Pankaj Vijay Rathod
- Nationality: Indian
- Place, Date of Birth: Pune, 19th December 1981
- Permanent address: 1848 Agra Road, Lane no. 3,
Kallaji Ladhaji Jewellers, Dhule- 424001, MH, India.
- Current Address: C/o Koetzing, Sophienstr. 7, 07743 Jena, Germany
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