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Delhi-110091, India

Education

Sept'07-March'09: Master of Science in Mechatronics

Hochschule Ravensburg-Weingarten, Weingarten, Germany Final Grade: 1.3\*\* (Best student award with Gold Coin)

Web: www.hs-weingarten.de

<u>July'03-July'07</u>: Bachelor of Technology in Electronics & Communication Engineering

Jamia Millia Islamia, New Delhi, India

Grade: 7.78/10 (First Division)

Web: www.jmi.nic.in

Projects/Relevant Experience

Sept'08-March'09: Master Thesis, EnOcean GmbH, Oberhaching, Germany (www.enocean.com)

Development of an automated testing framework for rapid verification of

hardware/software aspects of the developed ASIC API.

Recipient of Industrial Scholarship at 1000 euros/month for Master Thesis.

March'08-July'08: Scientific Project, Hochschule Ravensburg-Weingarten, Germany

Development & investigation of Cooperative Behavior in a team of small mobile

robots (implementing I<sup>2</sup>C Bus System).

March'08-July'08: HiWi Job, Hochschule Ravensburg-Weingarten, Germany

Cross-Compiler coding of Freescale 68k architecture Coldfire Microprocessor.

<u>Jan'07-May'07</u>: Bachelor Thesis, Jamia Millia Islamia, Delhi, India

Development of Electronic Control Uint (ECU) for Evaporative coolers enabling

water and electricity conservation implementing fuzzy logic.

June'06-July'06: Summer Training, DUCAT, Noida, India

Embedded Systems training (microcontrollers like 8051, ARM7TDMI, PIC).

<u>Dec'05-Jan'06</u>: Trainer, KGW Appin Knowledge Solutions Pvt. Ltd., Delhi, India

Provided technical training on Embedded Systems (Atmel 8051), Robotics, stepper

motor control, LCD module interfacing, DC motors.

Aug'05-Nov'05: Bachelor's Mini-Project, Jamia Millia Islamia, Delhi, India

Development of fully autonomous Metal Detector robot.

<u>June'05-July'05</u>: Summer Training, KGW Appin Knowledge Solutions Pvt. Ltd., Delhi, India

Embedded Systems(Atmel 8051) basics & interfacing and robotics.

\*\* Interpretation of Marks according to German ECTS system:

 1.0-1.5 excellent
 1.6-2.0 very good
 2.1-2.5 good

 2.6-3.5 satisfactory
 3.6-4.0 sufficient
 4.1-5.0 fail

## Skills

Microcontrollers: 8051, PIC, Coldfire v4.0, ATmega 8/16, ARM7TDMI, EO3000I.

**Programming Languages:** C/C++, Shell Scripting(BASH), assembly language.

IDEtt: KEIL, MPLAB, AVR Studio, CodeWarrior, Dolphin Studio.

**Simulation Tools:** MATLAB & Simulink(Version 7.0), PSPICE(basic), Xilinx(basic).

Hardware Tools: I2C Bus, NI DAQmx - 6212(Data Acquisition), UART, Oscilloscope,

Logic Analyzers.

OS Platforms: Windows, uCLinux (Embedded Linux), Cygwin, SUSE Linux.

Other Tools: Eagle (PCB Designing), Mantis (Bug Tracking System), CVS.

**Theoretical Knowledge:** DSP, Analog Electronics, CAN, SPI, Control Systems, Robotics, MEMS.

## Languages

**Excellent proficiency** in speaking & writing.

**German:** Basic skills in speaking & writing.

<u>Hindi</u>: Excellent proficiency in speaking & writing.

## **Interests**

Music, Badminton, Swimming, Adventure sports, philately, cooking.

**Rachit Kumar** 

17th June, 2009, New Delhi

<sup>&</sup>lt;sup>††</sup> Integrated Development Environment