Kunal Gupta

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F-1, Golden Residency – I, B-138,

Near Water Tank, Dadu Dayal Nagar,

Mansarovar, Jaipur (302020)

Rajasthan – India

Research Interests

HCI, Sensors Network to interface Virtual World with Real, Machine Learning, Embedded Systems, Computer Vision, User Interface Designs, Artificial Intelligence, Open Source , Accessibility , Intelligent Interactive systems with Haptic feedback, Games for Children to enhance their learning experience.

Education

2007 – '11	B.Tech *Electronics & Communication* , Rajasthan Technical Universtity, 65%	
2007	XII , *All India Senior Secondary Education* , CBSE , 82%	
2005	X *, All India Secondary Education* , CBSE , 80%	

Technical Skills

Operating Systems	Linux , Windows	Software Tools & Hardware Skills	Arduino IDE, Octave / MATLAB, Eagle, Eclipse , Code Blocks, OpenCV , Gtk, Qt , Android ADT, Scipy, Numpy, Open Framework, Processing, PCB designing & Fabrication, SMD Soldering
Programming Languages	C , C++, Java, Python, HTML, PHP, MATLAB, SQL, XML, Django, Bash	Multimedia Tools	Adobe Phoshop , GIMP, Picasa , Blender, Audacity, Adobe Illustrator, Inkscape, Cinerrela,

Work Experience

June 2012 – **Ducere Technologies Pvt Ltd,** *Embedded Design Research Engineer* aka *Dexter.*
June 2013 was Employee number 1, researched, prototyped & worked on Le Chal, a Haptic shoe for the visually impaired.

Sept 2010 – **K.K.Computronics** , *Electronics Projects Consultant.*
Present working on ideas regarding new electronics projects for company and marketing plans for the products.

Jan 2012 – **Farasbee,** *Hardware / Embedded Design Engineer.*
June 2012 worked on Many Products like Diabeto , customized Guitar AMP , T-Board.

Sept 2011 – **Poornima Group of Colleges,** *Assistant of Director (Academics).*
Dec 2011 my work was to research & implement new innovative ways of teaching to enhance student's learning experience.

Mar 2010 – **K.K.Computronics,** *Intern.*
June 2010 worked on the basic website of the company.

Projects

IMU Galaxian – Processing based Spaceship fight Game similar to 8-bit Galaxian played on TV Video Games controlled by a self made hardware constituting IMU sensors.

Le Chal – a haptic shoe for the Visually Impaired which helps them to navigate from one place to another.

Diabeto – a non-intrusive Bluetooth powered hardware device, which enables the transfer of glucose readings from your glucometer into android device.

Sphero – Idea is to create a virtual sphere "Aura" around a person where he can track his important things which he tags and store it in mobile phone with profiles.

Sticky-Tweet – Embedded device that can be nailed on door which shows latest tweet with a particular hashtag and can work as sticky notes.

Gesto-Paint – Color Recognition based computer vision project that helps in painting on simple paint application on ubuntu using hands movement having red markers cap.

One Laptop per Child (OLPC) – gave tutorials and demonstrated "How to Use OLPC Laptops to make learning efficient and fast " the students of age group 10-14 years in Govt School, Kikarwali, village in Sangaria Tehsil of Hanumangarh district in Rajasthan, India

School OS – Linux based Operating System which is a remix of ubuntu and all the basic softwares for school students.

Mini Wiki Explorer – Its an Idea proposed for Intel's Embedded Challenge. An embedded device based on Intel's Atom processor used for real time Wikipedia query simultaneously while listening someone with many more additional features like image, e-book search, tweeting.

TIC TAC TOE – A two player game of 0 and X played by kids called tic tac toe, was made by our team on a 15X15 pcb board with the help of PIC microcontroller and LEDs.

Achievements

2012 – Interviewed in Zee News TV Channel for Le Chal.

2010 – Co-organizer of RajasFOSS, a FOSS event in Engineering College Bikaner (ECB) .

2010 – Organizer of Software Freedom Day in ECB

2009 – Member of Linux User Group Bikaner abbreviated as LUGB

2009 – Member in organizing committee of FOSSGN'09 in ECB

2009 – Core member of Quartz – a society of Electronics & Communication Department in ECB

2006 – Founding member of Mathematics Club in Kendriya Vidyalaya No-1, Faridabad

2005 – Rashtrapati Award awarded for Scouting