GAURAV TAGORE

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EDUCATION:

Program	Institution	Score	Completion
Dual Degree (B.Tech + M.Tech) in ELECTRONICS & ELECTRICAL COMMUNICATION ENGINEERING (M.Tech specialization: Visual Information Processing & Embedded Systems)	INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR	7.78/10	2011
XII (CBSE)	Delhi Public School, Faridabad	85.4%	2005
X (CBSE)	D.A.V. Public School, Faridabad	90.0%	2003

ACADEMIC ACHIEVEMENTS:

- **All India Rank 769** (top 0.26%) in **IIT-JEE 2006**, out of approx. 3,00,000 candidates.
- State Rank 52 and All India Rank 2197 (top 0.36%) in AIEEE-2006, out of approx. 6,00,000 candidates.
- **97.2 percentile** in **GATE-2010**, resulting in being awarded the MHRD scholarship.
- All India Rank 118 in Students Talent Promotion Examination, conducted by CBSE, 2003.
- **Scholar Badge** holder for **5 consecutive years** for outstanding academic performance, 1999-2003.

RELEVANT COURSES TAKEN:

- Design & Analysis of Algorithms
- Data Structures & Object Representation
- Probability & Stochastic Processes
- **Industrial Economics**

INTERNSHIPS:

ELECTRONICS & RADAR DEVELOPMENT ESTABLISHMENT (LRDE), DRDO, Bangalore (May-June, 2009)

Description: Implementation of Novel Mapping of a Linear QR Architecture, which forms the core

processor of a single chip Adaptive Beam-forming system.

The mapping technique assigns a QR triangular array of 2m²+3m+1 cells down to a linear Achievement:

architecture of m+1 processors, resulting in **100% hardware utilization**.

OMEGA ELECTRONICS, Jaipur

(May-June, 2008) Design of fully printable Active, Passive and Semi-passive RFID tags, using Chipless RFID Description:

technology in which tags do not contain an electronic circuit.

The potential benefit of these Chipless tags is that eventually they could be **printed directly** Achievement:

on products and packaging, replacing the barcodes.

PROJECTS:

Human Activity Modelling (M.Tech Project, Jul 10 - present)	 Successfully detected Human Groups on the basis of proximity, speed, direction, etc. with an efficiency of 83%. Currently working on Recognition & Differentiating between various aspects of human motion using Hamiltonian Energy Signatures.
Human Object Tracking (B.Tech Project, Aug 09 – Apr 10)	 Successfully carried out Human Motion Tracking using a combination of Colour Histogram & Kalman Filter tracking algorithms. The combination resulted in a 9% improvement in tracking
	efficiency and can be used for surveillance purposes.
Axial Stereoscopic Imaging (Feb-Apr, 2010)	 Designed a technique capable of obtaining 3D information from an image using Optical Flow analysis. It can be used to measure objects in stereoscopic image pairs.

EXTRA-CURRICULAR ACTIVITIES:

- **English Dramatics**: Honorable mention for representing RP Hall in Inter-Hostel Competition, 2008.
- **Robotix**: Amongst **Top 8** teams in Kshitij-2008 (IIT-Kharagpur tech fest) in the Load-Runner event.
- **Redcross** (NSS) society member: First-Aid Awareness Campaign, 2007-08.
- **HelpAge India**: Received Certificate of Appreciation for raising funds for the poor.

SOFTWARE SKILLS:

C, C++, Verilog, VHDL, ARM, 8085 & 8051 assembly Languages

Simulation Tools MATLAB, Xilinx, Cadence, PSpice, AutoCAD

Platforms Windows, Linux