CF – 214, Salt Lake City,
Kolkata – 700064,
West Bengal, India.

Mobile: +91-9733504056
email: ary.arnab@gmail.com

Arnab Sengupta

Academic Qualifications

Year	Degree / Certificate	Institution	CGPA / %
2011	**Dual Degree** – Integrated **BTech.** (*Electronics and Electrical Communication Engineering*) and **MTech.** (*Visual Information Processing and Embedded Systems*)	IIT Kharagpur	**9.51 / 10**
2006	ISC (Class XII)	La Martiniere For Boys, Calcutta	**97.75%**
2004	ICSE (Class X)	La Martiniere For Boys, Calcutta	**96.40%**

Academic Achievements

Ranks	▪ **Topper** in specialization of *Visual Information Processing and Embedded Systems*. ▪ Ranked **Fourth in the Institute** among 300 (approx.) students. ▪ **All India Rank of 1017** in **IIT-JEE** 2006 among approximately 300,000 candidates. ▪ **State Rank of 18 in WBJEE** 2006 and **65 in AIEEE** 2006 among approximately 60,000 candidates.
Awards	▪ Awarded the prestigious **MAMRAJ AGARWAL RASHTRIYA PURASHKAR** by the **Honorable Governor of West Bengal** in appreciation of excellent performance in ISC 2006. ▪ Awarded the **Founder's Gold Medal** in La Martiniere For Boys School in **2006 and 2004** for securing the **Highest Marks in ISC and ICSE** respectively. ▪ Placed **Third** in India in the **Academic Aptitude and Achievements Test 2003**, jointly conducted by Institute of Psychological and Educational Measurement, Allahabad and CISCE, New Delhi.

Projects and Skills

Projects	▪ Developed an **efficient real time algorithm for tracking vehicles from traffic surveillance video sequences** as a part of BTech. Dissertation. [April 2009 – May 2010] ▪ Worked in the field of bio-medical signal processing for the **early detection of breast cancer** - a project funded by **Texas Instruments**. [May – November 2008] ▪ Developed the **GUI and Circuit Builder on JAVA Platform** for **"Development of on-line distribution monitoring device with WLL capacity"** - a project funded by the **Central Power Research Institute of India**. [May 2007 – April 2008]
Skills	▪ Programming Languages: C, C++, Visual C++ and OpenCV, MATLAB, JAVA, html ▪ Softwares: MS Office, Adobe Photoshop, Adobe Premiere Pro

Internships

May - July 2010	*McMaster University, Canada* ▪ **One of 100 MITACS Globalink Scholars** selected from India to pursue summer internship in Canada. ▪ Worked in the field of "**Digital Resolution Up-conversion of Image and Video Signals"** and developed a **fast and efficient algorithm for digitally up-converting the frame rate of video sequences**. ▪ **100% scholarship offer** for admission to the doctoral course based on performance in the internship.
May - July 2009	*Technical University of Munich, Germany* ▪ **One of 200 DAAD WISE Fellowship Holders** selected from India to pursue summer internship in Germany. ▪ Worked in the "**Kognimobil Project"** - a project aimed at developing cognitive automobiles. ▪ Developed a **statistical confidence measure for optical flow fields**.

Extra Academic Achievements

Competitions	▪ Placed **Sixth** in two consecutive years, among **over 200 teams**, in **Overnite ACM ICPC (provincial level of ACM ICPC)** organised during Kshitij 2008 and 2009 in IIT Kharagpur. ▪ Represented La Martiniere For Boys, Calcutta in the **National Level Inter-School Coding Competition 2005**, organised by **Computer Society of India**.
Music	▪ Talented guitarist and keyboardist, an active member of the MS Hall Music Team. ▪ Obtained **Grade - I Degree** in **Electronic Keyboard** from **Trinity College, London.**
Social Service	▪ Volunteered for 2 years in the **National Service Scheme** and served as a teacher in a rural school. ▪ Developed the project **"In Search or New Opportunities - A comprehensive survey of Rakhalgedia and Rangametia Villages"** under the **Rural Development Centre**, IIT Kharagpur.
Interests	▪ Rich interests in photography and travelling. ▪ Football, Cricket, Table Tennis, Badminton and Swimming.