ARNA GHOSH | 13EE10010

Education

Year	Course	Institute	CGPA/Percentage
2013 - present	Bachelor Of Technology in Electrical Engineering	Indian Institute of Technology, Kharagpur	9.43/10
2013	Central Board of Secondary Education(12th)	Delhi Public School, Bokaro	97.2%
2011	Central Board of Secondary Education(10th)	Delhi Public School, Bokaro	10/10

Academic Achievements

- Placed **2nd** in the department among **126 students** enrolled for the course

Olympiads and Rankings	•Secured an **All India Rank** of **68** in the **IIT-JEE(Mains) 2013** and **829 in the IIT-JEE(Advanced) 2013** •Secured an **All India Rank** of **11** in the **West Bengal Joint Entrance Examination** •Achieved **AIR** of **1** in the National Science Olympiad (2012) organised by Science Olympiad Foundation •Qualiied Regional Maths Olympiad 2011, ranked **1st** in state and qualiied for the National Level •Qualiied National Standard Examination in Physics-2012, ranked in **top 5 (top 1%)** in state •Qualiied National Standard Examination in Astronomy-2012, ranked in **top 4 (top 1%)** in state
Scholarships	•Awarded Jagadish Bose National Science Talent Search (**JBNSTS**) scholarship 2013. •Recipient of the Kishore Vaigyanik Protsahan Yojana (**KVPY**) Scholarship 2012-2013. •Recipient of O.P. Jindal Engineering and Management Scholarship(**OPJEMS**) for the year 2014-2015.
Seminars and Camps	•Participated in **Vijyoshi IV camp** at IISc Bangalore, organized by KVPY and INSPIRE program 2012 •Attended lectures by eminent scientists at a summer camp organized by **IISER Kolkata**(KVPY program) 2012

Projects/ Research Internships

UBC-O	Dr Kenneth Chau	May' 15 – July' 15
Overview	• Worked on a **rapid scanning microscope** to image an area of about 5mmX5mm in under 20 mins using cheap blu-ray readers and video microscopy with image processing techniques • Developed quick **image sharpening and dirt removal** algorithms using OpenCV in C++ • Designed the control system of motion stages for moving the slide using LabView software	
Progress	Developing an auto-focus control strategy and building an IOS app to make the product user-friendly and submitted a paper documenting the present results for review.	

IIT Kgp	Indic View	October' 14 - present
Overview	• Development of an OCR-cum-translator for Indian languages under the **Google Pilot program** • Worked on image processing techniques including deblurring, skew correction and thresholding • Developed algorithm to segment words from image and thereby facilitate translation	
Progress	Developing an android app and looking into strategies to feedback inaccuracies from user.	

IIT Kgp	Autonomous Ground Vehicle	March'14 - present
Overview	• Associated with the **computer vision** team responsible for the perception module of the car • Designed algorithms for obstacle avoidance based on color as well as testing and modifying the implementation of the lane detection algorithm • Part of the team at the **Intelligent Ground Vehicle Challenge** 2014 at Oakland University in Rochester, Michigan. The team qualiied for Basic level of the challenge • Represented the team at the **Mahindra Rise Prize -Driverless Car Challenge** Presentation phase • Currently started contributing to the planning and controls team for testing the software module	

Positions of Responsibility

Director, Public Relations, IIT Kgp MUN, Oct'13-Jan'14	• Was responsible for inviting the participants and managing their accommodation in campus during the event. • Increased footfall by about 60% from previous edition.
Vice-Captain, Bengali dramatics and elocution Radhakrishnan Hall	• Conducted dramatics trials workshops for sophomores in the hall. • Currently preparing a team for Open IIT **Bengali elocution** competition. • Directing and coordinating a team of around **40 students** for Open-IIT **Dramatics.** • Handling the yearly literary budget of 10,000 INR for the year 2015-16.
Students' Mentor Electrical Engineering Department August '15 - Present	• Assigned to be the **mentor** for first year students of our department by **Student Welfare Group** under the supervision of the **Dean of Student Afairs,** IIT Kharagpur • **Conducted** short doubt clearing and counseling sessions for irst year students of our department and helped them get acquainted with the institute system

Skills

Software	Languages(C,C++,JAVA), Matlab, OpenCV, ROS(Robot Operating System) ,Octave,LtSpice IV,Ms Oice(word, excel, PowerPoint), HTML, CSS,XML, MySQL , Gazebo IDE – Netbeans , Eclipse , Microsoft Visual Studio(2010 and 2012) ;OS – Windows,Linux(Ubuntu 14.04)
Hardware	Arduino, BeagleBone, Roboteq DC motor Controller

Extra-Curricular activities

Cultural	• Actively participated in 6 plays as a senior member of **Technology Dramatics Society-Druheen** and directed and coordinated a team of around **30 students** for the freshers' play • Won **2nd** prize in Open-IIT **Bengali Elocution** 2014 among 25 participants. • Part of the **Gold winning English and Hindi dramatics** and the **Silver winning Bengali Dramatics** teams. • Awarded the **Best All-rounder Fresher** award at Radhakrishnan Hall of Residence, IIT-Kharagpur for the academic year 2014-2015 among 100 sophomores. • Won **2nd** prize in Open-IIT **English Debate** 2013 among 20 participants.
Technical	• Won **Best Freshers' award** in **Geoaware** (Image processing event) in Kshitij-2014. • Part of the **Gold winning** team in the event **Hack-A-Things** organised by TCS during Kshitij 2015. • Attended Winter Workshop in **Image Processing** organised by **Robotix, IIT-Kharagpur** 2013. • Won 2nd Prize in **Powerpoint Presentation** event among 20 teams at Quest- India's 1st **International Biotechnology Fest** at City Montessori School,Lucknow 2009.

Email: arnatubaikgp@gmail.com   Ph:+91 7872687422   D-317 , Radhakrishnan Hall of Residence