**ARNA GHOSH | 13EE10010**

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| **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

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| 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

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| 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

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| 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

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| 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. | |

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