Jit Ray Chowdhury

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Academic	**M.Tech (CSE), Indian Institute of Technology, Kharagpur 8.85/10** 2012 - 2014

Qualified UGC-NET eligibility test for Lecturership in Indian colleges and universities   2012

Graduate Aptitude Test in Engineering (GATE)   Percentile: **99.7**   2012

Masters of Computer Applications   **8.2/10**   2008 - 2011
Future Institute of Engineering and Management

Bachelor of Computer Applications & Management   **8.13/10**   2005 - 2008
Dinabandhu Andrews Institute of Technology

BS ISO/IEC 27001:2005 Information Security Management Lead Auditor Course
Nov 2009

Academic Online **Programming a Robotic Car** at Udacity   2012
I achieved **Certificate of Accomplishment with Highest Distinction** signed by Sebastian Thrun, which means getting **100%** along with optional problems.

Introduction to Artificial Intelligence Course - Advanced Track   2011
An online course taught by Stanford's professors Peter Norvig and Sebastian Thrun. I achieved **96.8%** in the course and was in the top 25% of the class. I received a certificate signed by the professors.

Experience   **Auro Robotics Inc** (www.auro.ai)   CTO and Co-Founder
Worked on: May 2015 to Present

1. Deployment of autonomous shuttle in 2016
2. Simulation, Mobile app, Waypoint lib, Trajectory following
3. Obstacle avoidance, mapping and localization
4. Embedded controller for Drive-by-wire
5. Recruitment and on-boarding of employees

Auro Robotics Pvt. Ltd.   CTO and Co-Founder
Worked on: Dec 2013 to Apr 2015

1. Simulation for ackerman drive model, controller, world evironment, sensor simulation
2. Obstacle mapping and planning
3. Recruitment and Training of employees

Robotics Institute, Carnegie Mellon University   Research Assistant
Project: Shipboard Navigation for Micro Air Vehicles   May 2013 to Dec 2013
Advisors: Dr. Sebastian Scherer
Thesis: Planning in information space and navigating micro aerial vehicles in indoor environment using RGB-D camera
Worked on: Planning algorithm with uncertainty & Velocity controller

Indian Institute of Technology, Kharagpur   Software Developer
Autonomous Ground Vehicle Team (www.agv.iitkgp.ac.in)   Aug 2012 to Aug 2013
Advisors: Prof. Debashish Chakrabarty
Worked on:

1. System architecture planning

   - Top 10 of IGVC competition

   - Piloting transition to ROS

   - Simulation model, world and plugin creation for Gazebo

Indian Statistical Institute   Project linked Junior Research Fellow
Advanced Computing and Microelectronics Unit, Kolkata   July 2011 to July 2012
Advisors: Dr. Krishnendu Mukhopadhyaya
Project: Distributed Algorithms for Geometric Problems for Robot Swarms
Worked on Multi-Robot SLAM and simulated in Player/Stage.

Indian Statistical Institute   Project linked person
Computer Vision and Pattern Recognition Unit, Kolkata   April 2011 to July 2011
Advisors: Dr. Umapada Pal
Staff Line Removal from musical documents (best performance award ICDAR 2011)
Text Segmentation using Active Contour from Video

Projects/ Achievements	**Staff Line Removal Competition at ICDAR 2011** 2011 Won the First Place for Performance in Staff Removal Task, ICDAR 2011 Music Scores Competition.

Indian Institute of Technology, Kharagpur (Kshitij '11)   Jan, 2011
Achieved 2nd position in a Vision Based Autonomous Robotics competition "RoboCop"

Netaji Subhash Engineering College (Avenir 2009)   Feb, 2009
Achieved 1st position in an Autonomous robotics competition "Do-or-die"

Indian Institute of Technology, Kharagpur (Kshitij 09)   Feb, 2009
Participated in "8 mile" and built Unmanned Autonomous Vehicle based on Computer Vision for robotics competition

Indian Institute of Technology, Kharagpur (Kshitij 08)   Feb, 2008
Achieved 4th position (finalist) in an Autonomous robotics competition "I.M.A.G.E" based on Computer Vision and image processing and controlling a bot wirelessly

Indian Institute of Technology, Bombay (Techfest 08)   Jan, 08
Participated in (PIXEL) autonomous Computer Vision based robotics competition

Indian Institute of Technology, Kharagpur (Kshitij 07)   Feb, 2007
Have undertaken an Autonomous Robotics project on the "Rail Track Inspector"

Technical Skills

C	C++	ROS (Robot Operating System) and Gazebo
Python	LaTeX	Matlab
OpenCV	Git/SVN	Embedded Systems
Mobile Robotics	Self Driving Car	Micro Aerial Vehicles (Quadrotor)

Additional Information

- Initiator and chief-organizer of Technical Fest Phoenix and Technical forum Explorica 2008-2011

- Secured Third Prize In Counter Strike 1.6 Gaming Competition at Techno India Techfest 2007.

- 1 Year Training in Kung-Fu-Wushu under all India Jeet-Kundo Federation.

- 1st Division in Painting at Nandan Art Class under Bangiya Sangeet Parishad 1996-97.

Date: May 16, 2017   California, USA