Amaleshwar Sinha (07ME1042)

B.Tech. (Hons), Mechanical Engineering Indian Institute of Technology, Kharagpur					
B.Tech. (Hons), Mechanical Engineering	CGPA				
2007 XII: Board of Intermediate Education. Vijay Ratna Junior College, Hyderabad 2005 X: CBSE Kendriya Vidyalaya, Picket, Hyderabad Academic Achievements - All India Rank 1056 in IIT-JEE 2007, out of 350,000 candidates. (99.7 percentile) - All India Rank 2465 in AIEEE 2007, out of 600,000 candidates. (99.6 percentile) - All India Rank 2465 in AIEEE 2007, out of 600,000 candidates. (99.6 percentile) - All India Rank of 590 in 6th National Science Olympiad, 2003. - All India Rank of 590 in 6th National Science Olympiad, 2003 Scholarship in National Talent Search Exam by NCERT'05 (1000 out of 250,000 High Distinction in the Australian National Chemistry Quiz, conducted by the Australian Chemical Institute - Internships - Schlumberger Asia Services Ltd Wireline Segment May 2010 – Jun - Involved in field and base operations along with visits to 2 Oil Rigs Developed an all-weather temperature measurement device for well-logging tools Reduced the cost of the device by 97% Loughborough University, UK Holywell Mechatronics Research Centre May 2009–July - Analysis and Improvement of a Bowden Cable based Actuation system of a 6-DOF Biped Robot - Computer control and testing with a Data acquisition device Further improvements mimicking the human limb Select Projects	7.09				
Academic Achievements - All India Rank 1056 in IIT-JEE 2007, out of 350,000 candidates.(99.7 percentile) - All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) - All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) - All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) - All India Rank of 590 in 6th National Science Olympiad, 2003 All India Rank of 590 in 6th National Science Olympiad, 2003 Scholastic Achievements - Right Distinction in the Australian National Chemistry Quiz, conducted by the High Distinction in the Australian National Chemistry Quiz, conducted by the Australian Chemical Institute - Internships - Schlumberger Asia Services Ltd - Wireline Segment - May 2010 – Jun - Involved in field and base operations along with visits to 2 Oil Rigs Developed an all-weather temperature measurement device for well-logging tools Reduced the cost of the device by 97%. - Loughborough University, UK - Holywell Mechatronics Research Centre - May 2009–July - Analysis and Improvement of a Bowden Cable based Actuation system of a 6-DOF Biped Robot - Computer control and testing with a Data acquisition device Further improvements mimicking the human limb Select Projects	92.6%				
Academic Achievements All India Rank 1056 in IIT-JEE 2007, out of 350,000 candidates.(99.7 percentile) All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) All India Rank of 590 in 6th National 2003, in Hyderabad Region. All India Rank of 590 in 6th National Science Olympiad, 2003. Scholarship in National Talent Search Exam by NCERT'05 (1000 out of 250,000 High Distinction in the Australian National Chemistry Quiz, conducted by the Australian Chemical Institute Internships Schlumberger Asia Services Ltd Wireline Segment May 2010 – June Involved in field and base operations along with visits to 2 Oil Rigs. Developed an all-weather temperature measurement device for well-logging tools. Reduced the cost of the device by 97%. Loughborough University, UK Holywell Mechatronics Research Centre May 2009–July Analysis and Improvement of a Bowden Cable based Actuation system of a 6-DOF Biped Robot Computer control and testing with a Data acquisition device. Further improvements mimicking the human limb. Select Projects	88%				
All India Rank 1056 in IIT-JEE 2007, out of 350,000 candidates.(99.7 percentile) All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) All India Rank 2465 in AIEEE 2007, out of 600,000 candidates.(99.6 percentile) All India Rank of 590 in 6th National Science Olympiad, 2003. Scholastic Achievements	0070				
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	Computer control and testing with a Data acquisition device.				
B.Tech Project IIT Kharagpur August 2010 – 1					
	Present				
Development of a novel Concentrated Photovoltaic Solar energy generation system.					
• Infused economic analysis into the mechanical design, to achieve practical feasibility.	2000				
Summer Project Precision Automation & Robotics India Ltd. May 2008 – June 2008					
Software for a Rubik's Cube Solving Robot					
 Implementation of a Cube Solver Algorithm on a hypothetical robot. Development of a Graphical User Interface for feeding in existing configuration. 					
 Development of a Graphical User Interface for feeding in existing configuration. Generating the discrete logical commands for the robot. 					
Innovations Lab IIT Kharagpur August 2008 – Apr	ril 2009				
Mechanical improvements in the Amber Charkha, commercially used to produce yarn.					
 Speed regulation to achieve optimum rotation speed for best quality yarn. 					
Positions of Responsibility					
Head ROBOTIX, IIT Kharagpur May 2009 – March 2010)				
• ROBOTIX - national level robotics competition held with the Tech-fest Kshitij. Duties are Nationwide Publicity, complete Event Management. As a team, managed 2000 participants .					
Head of the autonomous robotics event Xplode, India's first collaborative robotics event.					
Sub-Head ROBOTIX, IIT Kharagpur May 2008 – April 2009					
 Prepared a tutorial for the event 12 Doors Down, had 10,000 hits in 15 days. Lectured on basic robotics to over 1000 students at major cities like Hyderabad and Kolkata 					

Senior Member		Kharagpur Robotics and AI group	August 2008 - Present		
Led 3 project teams on robot manipulators and car parking robots.					
Extensively delivered lectures to freshmen.					
• Participated in technical festivals across the country, from Kshitij–IIT Kharagpur to Tryst–IIT Delhi.					
Head, Winter Workshop		Technology ROBOTIX Society	December 2008		
Hands-on workshop for introducing first years to robotics.					
Introduced several new technical features.					
Radically improved the standard of the workshop.					
Member, Organizing Team		RoboCup Challenge @India 2009	May 2009 – August 2009		
RoboCup Challenge, internationally held Robo-Soccer tournament.					
Held for the first time in India.					
Captain		Hardware Exhibition	July 2010 - Present.		
Responsible for the hall's participation in the Inter-Hall Hardware Exhibition competition.					
Extra Curricular Activities					
Sports	Participated in Inter-Hall Shot-Put, Discus Throw and Hammer Throw				
	Green Belt in Shotokan style Karate . (3 belts below black)				
	neights of 11,000 feet.				
Social Service	In NSS Hindi Literacy division. Motivated 50 students from a village to study.				
	As a school student, participated in raising funds for HelpAge India .				
	Participant in the All India Blind Welfare Week, 2001.				
Technical Skills					
High Level	C, Visual Basic, GwBasic, HTML, VBScript; Microcontroller programming in C, Visual				
Programming	Basic (AVR & 8051/8052)				
Low Level	Assembly Language for 8051/8052 and AVR microcontrollers.				
Programming					
Design	AutoCAD, basics of Maya and SolidEdge				