NILANJAN BERA (06ME3106)
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Academic Qualifications

Degree Obtained	Name of Institution	% or CGPA	Year
B.Tech+M.Tech (Mechanical Engg.)	IIT Kharagpur	8.33/10.00	2006-2011
WBCHSE (XIIth)	St. Lawrence High School	87.60%	2006
WBBSE (Xth)	B. E. College Model School	90.62%	2004

Academic Distinctions

Examinations	➢ All India Rank 1165 in IITJEE among 300,000 candidates, 2006 ➢ Ranked 14th in state and 1206th nationwide in AIEEE among 700,000 students, 2006 ➢ Ranked 34th in engineering and 552nd in medical in WBJEE among 100,000 students, 2006 ➢ Placed in the top 20 in the statewide test conducted by AIMT, 2006
Scholastic Achievements	➢ Selected for admission in B.Stat course in Indian Statistical Institute, 2006 ➢ Was placed among top 1% of the participating students in the state level Physics Olympiad. ➢ Outstanding academic performance throughout the school life being placed in the top three of the class from class IV till class XII.

Research Projects

Design of an Autonomous Underwater Vehicle

Project Impact	➢ Collaboration project between IIT Kharagpur and Georgia Institute of Technology, USA involving faculty of both institutes. ➢ Multidisciplinary Design problem involving six students from the Department of Mechanical Engineering and the Department of Material Science and Engineering ➢ Concurrent design by integration of material and mechanical domains. ➢ Accepted as student intern to Georgia Institute of Technology, USA as a part of the alliance team during May-July 2009
Research	➢ Mechanical design of the AUV by FE analysis to achieve user requirements ➢ Integrated the results of the material and mechanical design modules in a single computational framework thus achieving multilevel integration. ➢ Used the novel top-down design approach that starts at the user requirements which are then subsequently mapped to mechanical and materials design steps thus controlling the design process based on the performance requirements

Design of an Autonomous Robotic Vehicle to Cross Obstacles

Project Description	➢ Design a robot that senses a recess in its path, deploys a bridge, crosses the recess, picks up the bridge and goes forward.

Extra Curricular Activities

NCC	➢ B level Certificate holder in the National Cadet Corps
Quiz	➢ Placed third in the East India zone in the nationwide Helpage India Quiz Contest, 2004
Social Initiatives	➢ Worked with Rural Development Centre, IIT Kharagpur on water conservation technology at grassroots level and supply of clean drinking water to below poverty line people of Rangametia ➢ Funds collection for Helpage India at school level
Painting	➢ Was placed in top 3 in multiple state level painting competitions during school level

Positions of Responsibility

College	➢ Class Representative of 4th year dual degree students to department academic committee, 2010 ➢ Member of MS Hall Illumination Team, 2007 ➢ Member of MS Hall Rangoli Team, 2007
School	➢ Secretary of school cultural committee organizing various cultural programs at school ➢ Class representative throughout school life from class I to Class X