

MRIDUSMITA SINHA

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Passion for information technology, consultancy and human resource development and entrepreneurship.
Focussing on leveraging these interests for developing managerial skills, decision making and new technology

EDUCATION

JORHAT ENGINEERING COLLEGE **Jorhat, Assam**
Bachelor of Engineering (B.E) - Mechanical Engineering 2010-2014

- ☐ UNIVERSITY AGGREGATE- 75.8%
- ☐ Diploma in AutoCad with distinction marks
- ☐ Participated: Certificate Course on Innovation, Employability skills and Career Guidance

ARMY PUBLIC SCHOOL **Guwahati, Assam**
AISSCE (Class 12) 2010

- ☐ 91.6% aggregate marks in the board examination

MAHARISHI VIDYA MANDIR PUBLIC SCHOOL **Guwahati, Assam**
AISSE(Class 10) 2008

- ☐ 93.6% aggregate marks in the board examination
- ☐ Among the top 0.1% of successful students in Science in 10th boards (CBSE)
- ☐ Secured: 1st position in B.E.S.T. Talent Search Examination , a scholarship examination on mental ability test in the 2006 and 2007
- ☐ Secured: 80% marks in 47th All India UN Information Test conducted by the Council for UN Information.
- ☐ Secured: 798 All India Rank in 9th National Science Olympiad, 2007.
- ☐ Secured: All India Rank 109 in 3rd National PMT/IIT Olympiad,2007 organised by EDUSYS.
- ☐ Assessed: CREDIT performance in Mathematics in International Assessment for Indian Schools by the The University of South Wales in 2007.

EXPERIENCE AND INTERNSHIP

1. INDIAN INSTITUTE OF TECHNOLOGY **Guwahati, Assam**
Dept. of Design
Summer Research Intern, June - July 2013

- ☐ The project titled "Design and Development of Assisting Device for Elderly Wheel Chair" which was implemented into the the integral system TIRTHRUP capable of carrying an elderly person in his day to day work without an external help.
- ☐ The purpose of the project was to develop an exercising machine in addition to the proposed medical wheel chair. In addition to it, successfully redesign the chair in order to reduce the height of the chair such that it becomes a bed, chair with different inclination, study table, hand and leg exercising machine all in one.

2. OIL INDIA LIMITED, NARANGI **Guwahati, Assam**
Winter Research Intern, Jan 2013

- ☐ In the Pipeline maintenance worked as an intern in the various sectors like oil movement, mechanical maintenance, fire safety and operation section and pipeline maintenance.

3. NORTH EASTERN FRONTIER RAILWAY **Maligaon, Assam**
Summer Research Intern, July 2012

- ☐ As trainee in mechanical section and mechanized laundry

PROJECTS

DESIGN AND DEVELOPMENT OF ASSISTING DEVICE FOR ELDERLY WHEEL CHAIR Indian Institute of Technology, Guwahati

- The purpose of the project was to develop an exercising machine in addition to the proposed medical wheel chair. In addition to it, successfully redesign the chair in order to reduce the height of the chair such that it becomes a bed, chair with different inclination, study table, hand and leg exercising machine all in one.

ELECTROMAGNETIC ENGINE Student Team Member, Aug 2013 -May 2014

Academic Project

- We have changed the operating principle of an internal combustion engine by using electromagnetic effect instead of combustion of fossil fuels. The electromagnetic engine works on the principle of magnetic attraction and repulsion between two magnets.
- Since in the working of this electromagnetic engine unlike the working of I.C engine, harmful gases and exhausts are not emitted, therefore this engine is less polluting and hazardous. And it will be an effective solution to the problem of shortage of fuels.

PAPER

TECHNICHE, 2012 IN IIT GUWAHATI

- Successfully presented a paper on "**Helping Stick Of Mankind: Energy of Past Present and Future; Renewable Energy option in Northeast India**"

ADDITIONAL

- **DEBATE:**
 - 1st prize in Inter College Debate Competition in PHOENIX 2013 in Jorhat Engineering College.
 - 3RD prize in Inter state debate competition in Pragjyotika, a group of institutions
 - 1st position and Best Debator in Inter School Debate Competition organised by Late Pashupati Bhuyan Memorial in 2004,2006 and 2007
 - Bagged 1st position in State Debate Competition organised by Mministry of Sports and Youth Welfare in 2007
 - 3rd position in Inter School Debate Competition organised by Late Pashupati Bhuyan Memorial in 2008.
 - 2nd position in Inter Army Debate Competition organised by Eastern Command in 2009.
- 2nd position in Inter Guwahati **Extempore Speech** Competition organised abacus,mathematical society in 2006
- 3rd position in **Poster Making** competition in Adolescence Education Programme under the aegis of CBSE
- 3rd position in **Mock Parliament** Competition organised by ANWESHA in 2006
- 1st prize in Inter School **Choreography** Competition in 2009.