

Debjit Hore

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SCHOLASTIC RECORD

| Degree | College / University | Year | CGPA / % |
|-------------------------|--|------|----------|
| MS | IIT Delhi | 2023 | 9.52 |
| B.Tech (Mechanical) | National Institute of Technology, Durgapur | 2018 | 8.09 |
| 12 th (CBSE) | DAV Model School, Durgapur | 2014 | 92.5 |
| 10 th (ICSE) | St.Xavier's School, Durgapur | 2012 | 94 |

WORK EXPERIENCE

- **CAE Analyst | Oceaneering International | Chandigarh** **July 2023 - Current**
 - Communicated with clients to translate complex engineering problems into precise **Finite Element Analysis (FEA) models for subsea structures**.
 - Utilized **Ansys Workbench, Mechanical and Spaceclaim** to perform linear and nonlinear structural and modal analysis.
 - Augmented FE analysis via **analytical calculations for weld strength, fastener safety verification and padeye safety** in Mathcad based on DNV and ASME guidelines.
 - Collaborated with multidisciplinary teams for **product design and standardisation** based on industry standards.
- **Associate Consultant | PwC India | Kolkata** **July 2018 - Feb 2019**
 - Worked on the development of a web application for one of the leading banking entities in India.
 - Main role involved communicating with client to understand requirement and then work with the developer team to translate the same into code.

PROJECTS UNDERTAKEN

- **Oceaneering International**
 - Standarization of **Linear Valve Override Tool (LVOT)** design through FE analysis (Ansys) covering all possible load-cases including buckling, subsea lifting, sea transportation, and impact load scenarios.
 - Standardization of new generation **ROV adapter frame** via FE analysis for compression, water entry and exit scenarios.
 - Implemented a **Python automation script** in Ansys interface to verify the safety of pin joints under double shear as per Eurocode 3.
- **Indian Institute of Technology, Delhi**
 - Designed, simulated and fabricated a pneumatic soft robotic autonomous wearable device for muscle augmentation.
 - Implemented a **Artificial Neural Network (ANN)** using synthetic data generated through FE analysis to predict the bending behaviour of pneumatic soft actuator.

POSITIONS OF RESPONSIBILITY

- **Training and Placement Representative | NIT Durgapur** **April 2017 - May 2018**
 - Involved in smooth conduction of the recruitment process for the batch of 2014-2018.

ACADEMIC ACHIEVEMENTS

- Received the **Best Undergraduate B.Tech Project Award** for developing a soft pneumatic ankle assistance device to help people with loss of motor function.

OTHER INFORMATION

- **Technical Skills & Tools:** Finite Element Method (FEM), Ansys Mechanical, Spaceclaim, Abaqus, MATLAB, Python, Numpy, Pandas, Tensorflow, Machine Learning, SolidWorks, FEnics.