

Debjit Hore

+91-8001763431 | [Email](#) | [LinkedIn](#)

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, MAT-LAB, Python, Numpy, Pandas, Tensorflow, Machine Learning, SolidWorks, FENics.