

SAYAN BATABYAL

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EXPERIENCE

Caterpillar Inc.: Virtual Product Development
Associate Engineer: Simulation

July 2021 - Present
Chennai, IN

- Independently supported design and development activities on Large Mining Trucks, Off-Highway Trucks (dump-bodies) and Wheel Tractor Scrapers: linear and non-linear analysis, stress recovery and fatigue evaluation of flexible bodies.
- Supported several key NPI and CPI projects with fast analysis turn-around. Notable ones are modular LMT bodies, domestic production of LMT and OHT bodies.
- Developed several automation tools to improve the analysis procedure by saving time and reducing errors. Notable one is pyLift which can help in analysis of lifting for any component and can automate all pre-processing tasks (saving a quarter of total time for the analysis).
- Joined Caterpillar EDC-India through campus recruitment process as an Engineering Rotational Development Program (ERDP) candidate - worked on FE modelling and component level static and dynamic analysis.

EDUCATION

Indian Institute of Technology, Kharagpur
M.Tech in Mechanical Engineering
Specialisation in Mechanical Systems Design
Overall GPA: 9.44

June 2021

Indian Institute of Engineering Science and Technology, Shibpur
B.Tech in Aerospace Engineering
Overall GPA: 8.14

June 2019

PUBLICATION

S.Batabyal, K.Khan, K.Roy. **Vibration suppression of sisal-epoxy bio-composite laminated beam.** IOP Conference Series: Materials Science and Engineering, Volume 377 pp.012102, June 2018

ACHIEVEMENTS

Secured All India Rank of 36 in Graduate Aptitude Test in Engineering (GATE)-2019 with a score of 775 out of 1000.

TECHNICAL STRENGTHS

Simulation Packages	Nastran, Abaqus, Fe-Safe
Meshing and CAD	HyperMesh, Creo
Programming	Python, MATLAB, C++
Others	Software Development, Machine Learning, \LaTeX