
Rakshe Shashank

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Summary

Meticulous **CAE Engineer** who excels at juggling multiple tasks and working under pressure. Experienced, Technical, Team oriented leader with excellent project management skills who work effectively with all level of employees in cross functional teams.

Highlights

- Proficient in Altair products (Hyper mesh, Optistruct and radioss) (2+ Years)
- Proficient in ABAQUS/CAE Implicit & Explicit (2+ Years)
- Proficient in ANSYS APDL,WB (1.5+ Years)
- Proficient in Solid works & Catia V5 (1.5+ Years)
- Good Experience in Fatigue life calculation software like FE Safe (1+ Years)
- Good Experience in Composite Design and Analysis product

Accomplishment

Total 2+ Years of Experience as **CAE Engineer and Researcher** in different domain

- Currently working as **Junior Research Fellow** since 1.5+ years in **Defence Institute of Advanced Technology (DRDO), Pune.**
- 0.5+ Years worked as **CAE Engineer** in **DEVV Calculus, Pune**

Key FE Analysis/ Product Development Project Handled

- Macro scale modelling of laminated fiber reinforced polymeric (FRP) composite using ABAQUS/CAE.
- FE analysis of adhesively bonded joint like SLJ, DLJ, and T joint and Out of Plane Joint using ANSYS APDL
- Optimization of parameter like fillet radius, lamination scheme, spar and rib thickness and span length by using DOE method.
- Failure analysis of composite structure using MATLAB.
- Developed modelling technique for high deformation twisting problem using ABAQUS/CAE and Explicit solver.
- Thermo-Mechanical analysis and contact modelling using ABAQUS/CAE.

Key achievement as Junior Research Fellow

- Being in Research Industry 1.5+ years of total experience in CAE field.
- Handled and grown 1 account from 0 to 3+ team size.
- Always worked on research project.
- Spend 10000+ hours on FE analysis.

Experience

Junior Research Fellow
Defence Institute of Advanced Technology (DRDO)

Pune, MH, India
Jan 2016- Present

- Handling project funded by Aeronautics R&D Board, Delhi.
- Working on numerical modelling of “Optimization of Skin and Rib (Spar) stiffness for An Optimum Performance of Co-Cured Spar Wing-skin Joints (SWJ) in Pull-Off Mode”.
- Used advanced modelling techniques in ANSYS like: APDL, Design Optimization, Composite Design.

CAE Engineer
DEVV Calculus, Pune

Pune, MH, India
Aug 2015-Dec 2015

- Worked on High deformation twisting problem.
- Meshing is done on different component like: Chassis, Arm, and Bucket using Hyper mesh.
- Done different types of analysis like: Linear and Non Linear structural analysis, Dynamic analysis.
- Worked on moving analytical Rigid-wall impact analysis and Impact energy absorbed by progressive collapse of box member and concept has been captured in simulation.

Education

Undergraduate Student
University of Pune

Pune, MH, India
Jul 2011-Jul 2015

- B.E., Mechanical Engineering, University of Pune, Pune, 2011-2015 (76.86%).
- B.E., Project: Design, Development and Testing of Automatic center stand for two wheeler.

Additional Information

Patent

- **Automatic center stand for two wheeler.** (Communicated)

Publications

- RAKSHE. S, NIMJE. S. V. and PANIGRAHI. S. K. "Optimization using Taguchi Optimization Technique for SWJ: A Case Study". 6th International Conference Product Life Cycle, Modelling, Simulation and Synthesis (PLMSS, 2017).
- RAKSHE. S, NIMJE. S. V. and PANIGRAHI. S. K. "Optimization of spar and wingskin thickness of spar wingskin joint using FE based failure analysis". ICCMS (2017)
- RAKSHE. S, NIMJE. S. V. and PANIGRAHI. S. K. "Three dimensional FE Analyses of laminated fiber reinforced polymeric (FRP) composite Spar Wing Skin Joint (SWJ) with different circular load coupler profile". Conference Mechanics of composites (ISTAM), 415,(2016)
- RAKSHE.S. "Automatic center stand for two wheeler". MSBTE sponsored state level Technical paper competition. (2014)

Extra-Curricular Activates

- Participated in the '**District level sharda talent search examination 2008**' organized by Agricultural development trust.
- Successfully completed study of '**Maharashtra State Bharat Scout & Guides**'.
- Participation in '**ELYSIUM-12**' organized by VPCOE.
- Participation in '**OCULUS 2K13**' organized by SBPCOE.
- Participation in '**ELYSIUM-13**' organized by VPCOE.