MYCHELRAJ S

Design Engineer &
Team Leader

CONTACT

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SOFTWARE & TECHNICALSKILLS

- Expert in Modelling tools (Catia V5, Catia V6).
- Expert in Animation tool (3DVIA Catia composer).
- Familiar with MS office (Word, Excel, Power-point).
- Familiar in Adobe pdf.

EDUCATIONAL QUALIFICATIONS

- B.E Mechanical Engineering - 68.1 % in 2017.
- HSC (Higher Secondary Certificate) - 75.3 % in 2013.
- SSLC (Secondary School Leaving Certificate) - 85 % in 2011.

CERTIFICATION

- Design and Stress Analysis for Helicopter Engine Rear Mount Assembly at HAL, Bangalore.

SUMMARY

I'm having 5.8 years in DRDO organization and enhanced my effective design ideas and solutions.

WORK EXPERIENCE

- BAeHAL Software Ltd (Present-Nov 2019).

  HAL, Bangalore.
- Bangalore Aircraft Industries Pvt Ltd (MAR-2018 to OCT-2019). RT Nagar, Bangalore.

PROJECTS AT DRDO

Project:1 Airframe Design with internal supports

- ✓ Modelling the Airframe as per the organization standards using Catia V6.
- ✓ Modelling of structure like bulkheads, longerons, LRU brackets, Jig and Fixture for Control Surface Assy.
- ✓ Modelling and kinematic simulation done for the Landing gears.
- ✓ Aircraft Mass and CG calculation computed.
- ✓ RAS concept modelling and assemble to the airframe.
- ✓ Generation of drawing for Metallic, Sheetmetal, Welded and CFRP components and Assy drawings.
- ✓ Animation for assembly of airframe by using 3DVIA Composer.
- ✓ Documentation and presentation prepared for the airframe.

Project:2 Jig and Fixture designed for Wing Assy

- ✓ Wing structure modelled as per organization standard.
- ✓ Modelling of the internal support brackets, spars, ribs, skins.
- ✓ Modelling of Jig and Fixture for assemble the Wing structure.

Project:3 Airframe design for UAV

- ✓ Airframe design as per organization standard for UAV.
- ✓ Preliminary stage Airframe structure making for bulkheads, longerons, control surfaces and sub-modules.