

ALAGU SUBRAMANIAN S

Automotive OEM CAE Engineer - CRASH

ABOUT ME

Good at crash mechanics and FEA with 7 years of experience. I am an excellent team player, always aim to develop the safe automobile.

PROFILE SUMMARY

- ✓ Currently working as CAE-Engineer (Frontal Crash Analysis) in Renault Nissan Mitsubishi Technology Business Centre India.
- ✓ Performing frontal crash CAE analysis (Structure and Injury) for Nissan (Global) vehicles.
- ✓ Analysis root cause mechanism for the issue and propose the cost-effective countermeasure items. Discuss and negotiate with body/restraint designer for effective countermeasure.
- ✓ Performed the Correlation study to match the CAE model with physical test result to improve the CAE accuracy.
- ✓ Good knowledge about vehicle development process, NCAP, regulations, and crash testing.
- ✓ Frontal crash performance in charge for Nissan next generation US market vehicle. Worked as the supporting person for Nissan Next generation FRAME vehicle for US Market.

WORK EXPERIENCE

2015 –present CAE ENGINEER – Frontal CRASH
Renault Nissan Technology and Business Center India
Private Limited


ACADEMIC PROFILE


2011 –2015 B.E. Mechanical Engineering
Thaigarajar College of Engineering Overall CGPA – 7.96

2010–2011 HSC
Vivekanadha higher secondary school, Nammakal Overall
Percentage: 92.75%.

2008 –2009 SSLC
Muthiah Alagappa Mat. Hr. Sec. School, Kottaiyur Overall
Percentage: 85.6%



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Work Experience

Overall experience of 7 years in Frontal Crash CAE performance.

SKILLS

Software

❖ Pamcrash	: 9/10
❖ Hyper mesh	: 9/10
❖ ANSA	: 7/10
❖ Animator	: 9/10
❖ Visual Environment	: 8/10
❖ LS-Dyna	: 5/10

Professional

- ❖ Crashworthiness: - Structure & Restraint System
- ❖ Dynamic Nonlinear FEA
- ❖ Good Understanding in frontal crash regulation & NCAP.
- ❖ Crash CAE Preprocessing, solver & Post processing tool.
- ❖ Full Vehicle Model setting
- ❖ Project management

PROFILE SUMMARY

Datsun GO & GO+ (ASEAN NCAP 2-star)

- Worked on DATSUN Go hatchback and MUV for Indonesia market. Vehicle achieved planned 2-Star rating for ADULT protection in ASEAN-NCAP

Nissan MICRA Generation Hatchback (ENCAP 5-star)

- Performed structure and injury analysis for Nissan next generation hatchback Vehicle for achieving the 5-Star rating in ENCAP.
- Supported for solving the issue in structural performance (body integrity).

Nissan Next generation SEDAN (US Market)

- Worked on Nissan next generation sedan Vehicle for US market.
- Supported for structure and injury analysis.

Nissan Next generation Frame Vehicle (US Market)

- Worked on Nissan next generation FRAME Vehicle for US market.
- Supported for structure and injury analysis for USNCAP and IIHS condition.
- Done correlation study to improve the accuracy of CAE.

Nissan Next generation Frame Vehicle (ENCAP)

- Worked on Nissan next generation FRAME Vehicle for Europe market.
- Performed Frontal structure analysis to achieve the vehicle planned target for ENCAP.

Nissan Next Generation (JNCAP 5-STAR)

- Worked on Nissan next generation Electric Vehicle for JNCAP.
- Performed Frontal crash CAE analysis to achieve the vehicle planned target for structure, High voltage evaluation and Injury evaluation.
- Proposed the countermeasure to protect high voltage parts during Frontal crash.

Nissan Next Generation SUV

- Worked on Nissan next generation SUV Vehicle.
- Supported for solving the Frontal crash full vehicle physical test issue (proposed the Countermeasure item to solve the issue).

Key Achievement

- Managed vehicle project along with 4-member team to ensure 100% FTR and OTD.
- Supported for Nissan Titan 2017-year model to achieve "Good" rating for IIHS Small Overlap.
- By Correlation, improve the CAE accuracy for IIHS Small Overlap condition from 50% to 90% enabling strong contribution for SOL Countermeasure development.

PERSONAL SKILLS

- ❖ Self-Motivated and accountable for actions.
- ❖ Flexible and adaptable
- ❖ Good at Problem solving
- ❖ Honest and Transparent
- ❖ High degree of emotional stability
- ❖ Good at Presentation

PERSONAL DETAILS

DATE OF BIRTH : 10.11.1993

FATHER'S NAME: Selvaraj.V

ADDRESS : 7-22/3, PR S illam,
Sir C V Raman St,
Kottaiyur-630106
Tamil Nadu

LANGUAGES

- ❖ Tamil
- ❖ English

HOBBIES

- ❖ Cricket
- ❖ Football
- ❖ Calligraphy
- ❖ Cycling
- ❖ Reading
- ❖ Sketching