

VIKNESH.M

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CAREER OBJECTIVE

To pursue a challenging and innovative career in CAE industry and work as an FEA analyst with scope for continuous improvement and opportunity for learning and growth.

AREA OF TRAINING

CAE Engineer (Hyper works / LS Dyna)

- Team Lead (In College) Wolfpack mekzians Go-kart Groups, GCE-Salem
- Developing the F1 car for Go-Kart National & State level events.
- Responsible for CAE Analysis for Go-Kart vehicle.
- Meshing of 1D, 2D, 3D components using HM, Static Analysis with Optistruct Solver, and Safety Analysis for Automotive Seating system.
- Providing the Hyper works Training for the junior groups.

TOOLS EXPERTISE

Pre-processing : Hyper Mesh, Ansa (Basic)

Solver : **LS-Dyna, Optistruct** (chassis development study, Modal Analysis)

Post-processing : Hyper view, Hyper Graph

LANGUAGES

- Tamil (Native or Bilingual Proficiency)
- English (Full Professional Proficiency)

EDUCATION

Bachelor of Engineering – Mechanical (7.59CGPA)

Government College of Engineering, Anna University
Salem, Tamilnadu, India. 2017 – 2020

Diploma in Mechanical Engineering (94.71%)

Muthayammal Polytechnic College, DOTE
Salem, Tamilnadu, India. 2015 – 2017

Higher Secondary School (Computer-Math's) (59.5%)

Sourashtra Higher Secondary School,
Paramakudi, Tamilnadu, India. 2014 – 2015

High School (76.4%)

Sacred Heart Higher Secondary School,
Thiruvarangam, Tamilnadu, India. 2012 – 2013

PROJECTS



Go-kart F9 Race Car Development:

- Lead the team to develop the F9 Race car development for “GKDC-Season-6” held at Noida-Delhi in 2019.
- Development of Chassis with various critical loading condition by using hyper mesh and optistruct.
- Modal Analysis for the F9 Race car using Optistruct.
- 1G/ 3G load cases are performed for chassis using Optistruct solver and based on the results, Optimizations are performed.
- Optistruct and chassis bending load case is performed.
- Modal analysis performed to find the natural frequency and avoiding the resonance with Engine frequency.

Meshing of Sheet metal Parts and Solids:

- 2D meshing of different automotive sheet metal parts using Hyper Mesh.
- Meshing of BIW parts for vehicle.

Latch Mechanism Analysis:

- Develop the Seat Latch mechanism to achieve the Max load capacity by using LS-Dyna and Hyper Mesh,
- Latch Forward Pull Quasi Static Analysis, Latch Lateral Pull Analysis and Latch Worst case Analysis.

Seating System Analysis:

- Analysis of 2nd Row seat Assembly for ECE R14 regulation.
- Complete Meshing and connection for Seat Assembly using Hyper Mesh.
- Perform the SBA Load case with LS Dyna.
- Luggage Retention Simulation ECE R17.
- Child Restrain (Isofix) Test ECE R16, FMVSS-225.
- Performed the Track pull analysis for 1st Row tracks.

CONFERENCE & TRAININGS

- **7th Place in National level** and **1st place in State level** 6th Go kart Design Challenge Event held in the year of 2018-2019 at Delhi.
- **Best CAE and Design award** in National level BFKCT event held in 2019-2020 at Coimbatore Successfully created a team of 25members for the go-kart event and guiding them.
- Participated in **Electric Vehicle Training** course in TATTI, Chennai.

PERSONAL PROFILE

Father's Name : K.Malaimagam
Mother's Name : M.Poongavanam
Date of Birth : 25-May-1998
Gender : Male
Marital Status : Single
Permanent Address : #2/182B, Pokkanarendal, ulaiyoor-Post
Ramanathapuram, Tamilnadu. PIN - 623712.
Languages Known : Tamil, English
Nationality : Indian

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Viknesh.M
Ramanathapuram