

2012

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Academic Portfolio

Loguprasath KN

“Purpose Makes Product Better”

2024

Product Development &
Manufacturing

2016

Place : PSG College of Technology- Coimbatore Student-Production Engineering (SW)

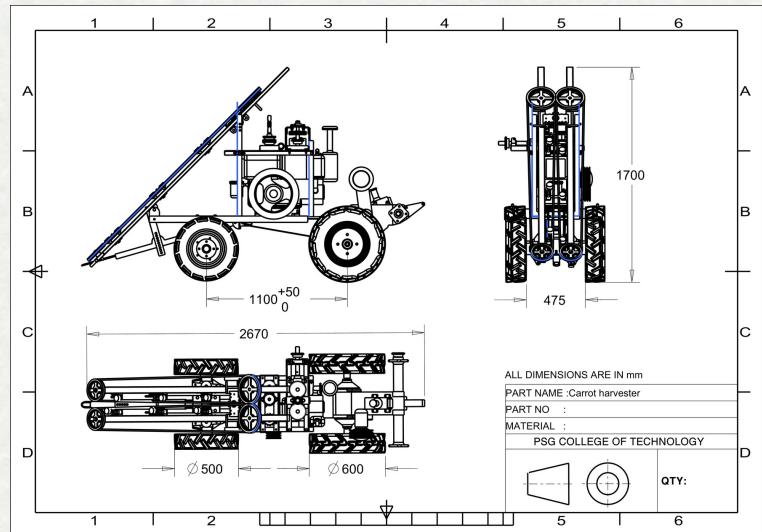
We did project that is actually in need and required high manufacturing skill

Design And fabrication of Carrot harvester Machine

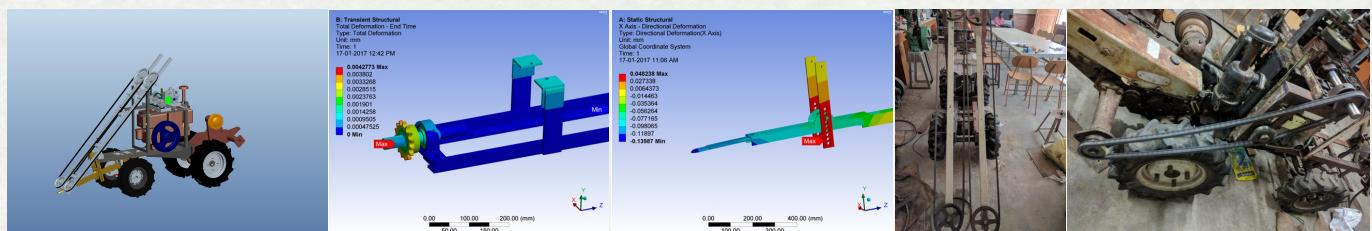
This is full scale and market potential end to end product development project undertaken during my UG Course

So we did

1. Actual problem Analysis
2. Literature Survey
3. Concept Design
4. Concept Evaluation and selection
5. Design & Analysis
6. DFMA
7. Fabrication
8. Testing and Tuning



The project gave a full insight to the actual industry out side the academic
And we got explore and test the theories we learned from our course



Skills updated:



creo®

DS SOLIDWORKS



- Project Coordination & Execution
- Manufacturing GD&T
- DFMA
- Parts Procurement

2017

Portfolio
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2015

Place : Rane NSK Bearing Systems Ltd.-Chennai Student- Intern

One of the biggest opportunity in my academic times , i got internship in one of the india's automobile OEM Rane NSK

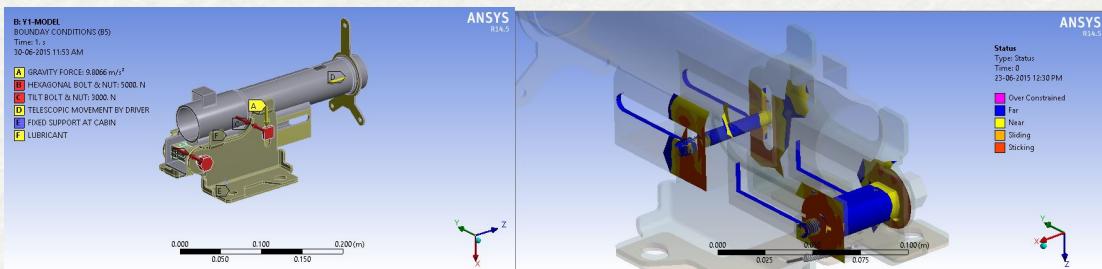
It's a venture between the Madras Rane Systems and japan's NSK Bearings to manufacture Steering Columns for indian and foreign Automobiles

1.Analysis of TATA Starbus Steering Columns Collapse failure

At our time of our internship the particular steering column getting feedback as it's failure to collapse during accidents

So our approach to R&D department gave us the internal look and problem solving in manufacturing industries

Our approach towards the problem was to run a complete analysis in Ansys
Since the R&D Department was doing the Lab testing method



And as per our analysis in Ansys Dynamic - Study we figured out that the nylon bushes used for collapsing purpose got struck in a place due to excess tight in the nylock nut used in the assembly - and our suggestion is taken in to account for further R&D by the design Department.

Skills updated:



- Japanese work culture.
- OEM Exposure
- R & D Approach towards the problems

2016

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2015

Place : PSG College of Technology- Coimbatore Student-Production Engineering (SW)

So this time as a mid term project we undertook 2 Major projects

1.Weld Analysis in virtual environment

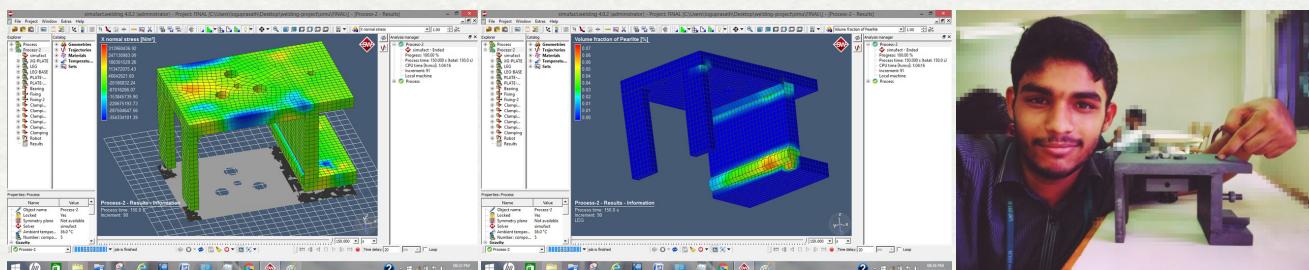
2.Intership Project (TATA Start Bus Steering Column)

By this time i had some sense about my skills sets and where to use them
And since it was a academic project so “No Skill is limited to Learn”.

1.Welding Analysis in Virtual Environment

in Our course we have learned that welding should be analyzed through specific tests and procedures and these all are physical ones

So we thought we could find the market available software which can simulate the critical welding process even before actually doing it



So we explored a software called “Simufact Welding”

The output was satisfying as we got to know resultant parameters like

1.Thermal Stress

2.Possible Material Phase Changing Area

3.Thermal Deformation....etc.

Skills updated:



- Basic Mesh Preparation
- Importance of Software based Analysis
- Simufact Forming as bonus.

2016

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2012

Place : PSG Polytechnic College - Coimbatore

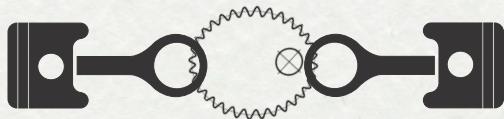
Student - Automobile Engineering

At final year project , we contributed something to the long lasting humanity destination - Eternal Engines

We went on to undertake project " Super Efficient Engine "

Yea.....Don't Worry at later stages i will realize that is some thing can't be achieved without a some kind of self generating materials

So.. This is what we did



So the each stroke of the 4 Stroke engine will be converted in to one full rotation in flywheel using the elliptical gear system, where the standard is 2 revolutions per 4 Strokes

Skills updated:



- Report Making
- Project Execution
- Teamwork

The prototype was fully made using wood, so i got some experience in wood and plywood sourcing , little bit of carpentry

2013