

VELAN C

DEPARTMENT OF MECHANICAL ENGINEERING

K.S.Rangasamy College of Technology (Autonomous). Tiruchengode.

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Design Portfolio: <https://grabcad.com/velan.c-1>

Linked in : <https://www.linkedin.com/in/velan-c/>

CAREER OBJECTIVE :

Looking forward to an opportunity to work in a supportive and challenging environment to improve my knowledge and enhance my skills that provide a wide experience and strive to contribute to the growth and add value to the organisation.

SKILLS :

- Design Research
- Industrial Design And Development
- Product Design Management (PDM)
- Product Life Cycle Management (PLM)
- Structural Simulation
- Reverse Engineering
- Computational Fluid Dynamics

DESIGN TOOLS:

- Autocad
- Solidworks
- Catia
- Creo
- Fusion 360
- Ansys Fluent
- Hypermesh

PROFESSIONAL EXPERIENCE :

DESIGN AND CAE ENGINEER - TRAINEE

Onward Technologies limited - Chennai | March 2022 - Till date

Reference : [Offer letter](#)

Roles and Responsibilities - DESIGN :

- Executing the assigned task based on the timeline
- Ensure product quality through two levels of review done and deliver the work products to the customer on-time
- Track and close all defects
- Status would be reporting to Project Lead / Project Head
- Daily time sheet entry with actual efforts in Touchbase
- Maintain the completed checklists and drawings based on the back ups specified to by the customers

Design Role - Highlights :

- Familiar in CREO modelling of Casting/Forging components, Conceptual design, Tool design and Sheet Metal fabrication components
- Expertised in GD&T as per the standards of ASME Y14.5-2009
- Experienced in working with Product Lifecycle Management tool (Teamcenter)

Roles and Responsibilities - CAE :

- Linear static analysis for heavy machineries
- Preprocessing the design using Hypermesh like Generating the FEA Models, Defining the material properties, Specifying the element types, Analysing model with problems, Contacts were given between the components in connection areas
- Defining the loads and boundary conditions are specified according to the scope and exporting it in the solver format
- Quality is maintained as per the required standards

DESIGN AND DEVELOPMENT - INTERNSHIP

Paranthaman Exporters - Perundurai, Erode | March 2021 - December 2021 (9 Months)

Roles and Responsibilities :

- Assisting the Seniors in Re-engineering and designing whole bought-out products.
- Developing the standard designs and outsourcing the product details on the basis of 'Product Data Management'(PDM). Creating the service and maintenance manuals for the customers.
- Creating the detailed drawings in the SOLIDWORKS, Updating the Bill of Material (BOM) in ERP Management system and submitting them to respective departments of Production, Planning, and Quality Control based upon the manufacturing requirements.
- Revising and Releasing the manufacturing drawings as per the 'Engineering Change Notice-(ECN)'.

Reference : [Intern Certificate](#)

PRODUCT DESIGNER - INTERNSHIP (Volunteering Supporter)

Battery Associates - Dublin, Ireland. | Feb 2021 - Jan 2022 (1 Year - Remote)

Role: Developed a 3d Model of a Prototype "Battery Cycler"

Reference : [Letter Of Recommendation](#)

PROFESSIONAL FREELANCER

Dhiman Engineering Services, Ludhiana, Punjab | July 2021 - Dec 2021 (6 Months)

Role: Industrial Designer | [Letter Of Recommendation](#)

RESEARCH ASSISTANT - INTERN

Conquer Technologies, Chennai | May 2020 - June 2020 (2 Months)

Roles and Responsibilities :

- Carried out a basic research on "Synthesis of Four Bar Linkage for Vehicle Steering Application".
- Carried out Literature Review Process on "Speed and Position control of BLDC Motor for Robotic Application".

Reference : [Letter of Recommendation](#)

COMPUTER AIDED DESIGN ENGINEER - INTERN

IIIRPD, Hyderabad | August 2020 (1 Month)

Roles and Responsibilities :

- Learned a 3D printing application "Cura".
- Carried out the design research on the given problem statements.
- Developed 50+ 3D printable models using **Autodesk fusion 360**.

Reference : [Letter of Recommendation](#)

EDUCATIONAL DETAILS:

Qualification	Institute	Year of passing	Percentage
B.E.,(Mech)	K.S.Rangasamy College of Technology(Autonomous)	2022	8.96/10 (7th sem)
HSC	Sri Saraswathi Vidyalaya Matric. Hr. Sec. School	2018	81%
SSLC	Sri Saraswathi Vidyalaya Matric. Hr. Sec. School	2016	94%

AREA OF INTEREST:

- Strength of materials
 - Theory of machines
 - Machine Design
- Kinematics of Machines
Finite Element Analysis
Fluid Mechanics

CO - CURRICULAR ACTIVITIES:

- **National Level Finalist - Toycathon 2021**
Ministry of Human Resource Development | **Role:** Product Design
Reference: [Certificate](#)
- **National Level Finalist - India Design Week 2021**
ICT Academy | **Role:** Industrial Design
Reference: [Certificate](#)

CERTIFICATIONS:

S.NO	COURSE	DOMAIN
1	Product Design and Development	NPTEL
2	Design Practise	NPTEL
3	Rapid Manufacturing	NPTEL
4	Work System Design	NPTEL
5	Geometric Dimension And Tolerancing	UDEMY
6	Computational Fluid Dynamics	IID, Salem

PROGRAMMING SKILLS :

- C language (Basic) - Python Programming (Basic) - C# Programming (Basic)

PROJECTS:

- **Design and Development of Static Mixer Using Additive Manufacturing**
K.S.Rangasamy College of Technology | Namakkal, Tamilnadu.

- **Design and Development of Battery Cyclor**

Battery Associates | Dublin, Ireland.

Project Description:

- Designed and Developed the outer casing of the an Electronic Component - “Battery Cyclor”

- **Design and Synthesis of Four bar Linkage System**

Conquer Technologies | Chennai.

Project Description:

- Designed and synthesised the four bar linkage mechanism based upon the requirement of vehicle steering application using ADAMS

LANGUAGES KNOWN:

- Tamil, English, Telugu, Hindi, Japanese.



<https://bit.ly/velancertificates>