



Gurunandan Velumani

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Japieserf 23, 2801TR, Gouda , Netherlands

EDUCATION

25 APR 2022 – 21 May 2024-Enschede-Netherlands

Master of Science – Industrial Design Engineering-University of Twente.

6 SEP 2021 – 2 FEB 2022-Enschede-Netherlands

Premaster-Industrial Design Engineering -University of Twente.

27 JUL 2015 – 10 APR 2019-Coimbatore-India

Bachelor of Engineering-Mechanical Engineering-Government College of Technology.

WORK EXPERIENCE

1 SEP 2023 – 21 May 2024 – Hoogeveen, Netherlands

Packaging Engineer (Intern) – Trivium Packaging BV

Master Assignment : "An explorative study on design packaging of metal cans for elderly nutrition."

- Led the design and innovation of packaging solutions, with a specific focus on addressing the needs of elderly consumers, ensuring compliance with standards typical of regulated nutrition industry similar to pharmaceuticals.
- Conducted comprehensive usability assessments to gather critical insights and drive the creation of primary packaging designs, ensuring they were practical, user-friendly, and easy to handle.
- Collaborated extensively with cross-disciplinary teams, including research, marketing, and supply chain, to develop functional, aesthetic packaging that met sustainability requirements and brand alignment.
- Acquired practical knowledge of the manufacturing process for three-piece nutritional cans, enhancing the understanding of production techniques and their impact on packaging design.
- Facilitated packaging validation and qualification efforts, including developing a detailed in-line production technique for the primary packaging.
- Led efforts in ensuring product protection through rigorous physical testing.
- Acquired knowledge of various quality control tests for packaging, such as pressure testing, peel force testing, can-end burst testing ,etc. to ensure that designs meet stringent industry standards for performance and safety.
- Ensured packaging design adhered to legislations of Food for Specific Groups (FSG) and other legislations.
- Supported sustainability initiatives by exploring environmentally friendly materials and design solutions, ensuring compliance with industry trends and contributing to corporate environmental goals.
- Played an active role in project management, coordinating with global teams to ensure that packaging design were designed and delivered on time and met all functional, aesthetic, and regulatory requirements.
- Recorded and analyzed findings from design iterations and usability tests, delivering final recommendations to stakeholders and contributing to strategic discussions for future product developments.

Graduate Engineer Trainee– Flowserve Corporation

- Documented design models and iterations for each packaging project using PTC Windchill software, ensuring proper version control and traceability throughout the development process.
- Collaborated with internal engineering teams to provide inputs on technical specifications and calculations for components, ensuring accuracy and alignment with project requirements.
- Assisted the global supply chain team in expediting project documentation to meet tight timelines and address vendor-related challenges, ensuring smooth execution of projects.
- Reviewed and verified 2D and 3D of drive designs using software like AutoCAD and SolidWorks, facilitating customer approvals and ensuring alignment with project specifications.
- Worked closely with the quality team to resolve any inspection issues related to components, ensuring that all designs met quality standards and industry regulations.
- Organized weekly meetings with suppliers to monitor on-time delivery (OTD) of documents of drives and components, addressing any issues with the internal engineering team and customers when necessary.
- Provided clarification on technical queries for the internal engineering team regarding drive components, ensuring smooth communication and project progression.
- Tracked and managed the assembly process for drives, coordinating with teams to prioritize based on project timelines and component readiness.
- Supported the procurement team by providing inputs to resolve assembly issues related to packaging components, ensuring efficient project flow.
- Assisted both external and internal customers by providing essential project documentation such as cause and effect diagrams, instrumentation diagrams, and other technical documentation relevant to packaging design.

● TECHNICAL SKILLS

Sketching

Hand Sketching | Procreate | Autodesk Sketchbook Pro

3D Modelling and Rendering

DS Solidworks | Rhino7 | Luxion Keyshot | Blender

Creating and Editing

Adobe Photoshop | Adobe Illustrator | Adobe Indesign

Presentation

Microsoft Powerpoint

Life Cycle Assessment

GaBI

● LANGUAGES

Tamil , English , Deutsch (A1,A2)