Giftson Raj D

CAD-Developer Engineer

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in linkedin.com/in/giftson-raj-d   💼 Portfolio

PROFESSIONAL SUMMARY

NX developer and CAD design engineer with 2+years of experience in BIW-Design Engineer, CAD modeling and product development. A collaborative team member with a track record of delivering multiple, concurrent projects in fast-paced environments. Seeking an opportunity to drive API efficiency though qualitative analysis and automated solutions by developing various automation scripts using NXOpen customization. Demonstrated attention to details and problem-solving ability to constantly deliver quality work in custom tool Development, Windows application, Block UI styler with modeling and drafting workspace.

CORE SKILLS

- GD&T
- UFUNC
- OOPS
- Bill of Material
- NXOpen API
- Json & xml
- Drafting Reading
- Custom CAD Tool
- Excel
- Data collection & handling
- Automation testing
- C#.Net Framework

WORK EXPERIENCE

BIW-DESIGN ENGINEER; Vectra Automation Software Pvt Ltd, (**Jun 2023 to Till-date**)

- Fixtures Design Engineer in the **BIW-Testing Engineer** Designation, handling different projects (tools)
- Spotting and **troubleshooting logic errors** in code or design related to **prototyping** and **assembly,** I promptly notify developers with detailed descriptions of the issue and propose the solutions.
- Debugging and testing customizations to ensure they are functioning correctly.
- Work handled in different **OEM** and automotive industry in engineering design for **Automation** drafting, mainly **Fixture Design** components.
- Executed while effectively collaborating with the design engineers & manufacturers to understand their needs and implement the **CAD customization toolbar** features that enhance their workflow.
- Work environment **SolidWorks**, **CATIA V5** and **SIEMENS NX 1919.**
- Provided training and support to end-user tips for maximizing on **custom toolbars** and **applications.**

PRODUCTS DEVELOPED

STUDENT DESIGNER; Innovation and product development center, MSME Incubation Hub, FX Engineering College (**Oct 2021 to May 2023**)

- Clay Slurry is highly cohesive, so the **sieve** is designed with a reciprocating pressing roller to emulate the manual process.
- A **Cold drier unit** with features to split the clay mass.
- **Clay Leather Hard State Drier**-Dries the wet pot to green pots during the forecast weather, by a controlled de-humidifier airflow and a mechanical fan system to ensure the air throw system on all sides of the pots.
- **Decorative Power Generating Window-**Windows space utilized for architecting and power generating. Using design Table for designing. Received a fund of **10 L**akhs rupees from MSME.
- **Agriculture Produces Dewatering and Drying Equipment-** Agricultural products are converted to value added product like juice and flakes (pulp)
- **Dual Axis Solar Tracking System-**Used for Sea food drying and agricultural products drying. Received a fund of **12 L**akhs rupees from MSME.

PATENT

- **Dual Axis Solar Tracking System,** Design no**:** 368330-001.
- **Decorative Power Window,** Design no**:** 404220-001.

MODEL PROJECTS

- Onion storage
- Clay De-Watering unit
- Complex CAD geometry algorithms solutions
- Ball Milling machine
- De-humidifier
- Identifying makes parts in a prototyping

CERTIFICATION & TOOLS

- AUTOCAD (Drafting and Solid Modelling)
- SOLIDWORKS (Advanced Mate &Mechanical Mate)
- CATIA V5 (Sheet Modelling)
- SIEMENS-NX (Customization)

EDUCATION

- **Bachelor's** in Mechanical Engineering - ANNA University **(**Francis Xavier**) |** 2023
- **Diploma** in Mechanical Engineering - DOTE (SCAD**) |** 2020