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Professional Summary

Experienced Software Engineer with 15 years of expertise spanning CAD design, PLM integration and development. Adept at designing efficient, scalable solutions that bridge mechanical design and software engineering domains. Profound understanding of computer systems architecture. Passionate about innovation and a keen learner.

Technical Skills

- Programming: C++, Python, C, Shell Scripting, STL and algorithms
- CAD & Design: NX, FreeCAD (2D/3D Design & Modeling)
- Operating Systems: Linux, Windows
- Image Processing: OpenCV, libcamera
- AI & ML Basics: Neural network coding using TensorFlow, basic AI/LM integration projects
- Electronics & IoT: Microcontrollers (ESP8266, ESP32), sensor integration, IoT systems design
- Version Control: Git, GitHub, GitLab
- Build & Automation: Make, CMake, Meson, CI/CD workflows

Professional Experience

1. SE - Software Architect — Siemens PLM Software (2024 - Present)

- Designed and implemented new objects in CAD.
- Developed tools for mechanical design validation and geometry analysis.
- Built custom scripts/tools for performance analysis and data visualization.
- Collaborated with cross-functional teams.
- Lead a small team of developers.
- Conducted C++ training

- Provided consultations to different area owners
- Mentored team members
- Lead the new CAD standards initiative
- PMI convert gaps project management

2. SE- Project Lead (Software Engineer – Advanced). (2018 – 2024)

- Edge Condition Market Research
- Edge Condition POC
- Edge Condition Symbols
- Designed and developed MBD navigator framework
- Contributed to MDB rules framework
- Worked on PMI convert initiative in team leader capacity
- FCF standards project

3. SE — Senior Technical Lead (Software Engineer). (2014 - 2018)

- PMI Performance Improvement in Part Navigator
- Auto Expand for Part Navigator
- PMI Annotation Plane Definition
- PMI Annotation Plane Definition research
- PMI Annotation Plane Definition POC

4. Software Engineer (2012 - 2014)

- Lightweight Drawing Views III
- Lightweight Drawing View IV
- Designed and implemented Borders and Zones II
- Helped teams mitigate technical challenges by coming up with novel solutions
- Worked on section views

5. Software Engineer Associate — Siemens PLM Software (2011 - 2012)

- Worked on Borders and Zones
- Supported Parametric Text for Zones represented by 2D drawing

- UI and data model enhancements
- Worked visualization and graphics rendering
- Worked on view labels
- Worked on drawing views
- Embraced new coding paradigm
- Solved complex recursive update problem

6. Student Intern (2010 - 2011)

- Design and implementation of the drawing sheet zones from its inception.
- Worked extensively on the drafting drawing application.
- Solely developed Sheet Zone Grid.
- Retrofitted legacy UI components (MT dialogs) and provided support for seamless integration with UI Comp Components.
- Worked on view labels.
- Wrote parsing algorithm to handle customized text in the view label.
- Worked on Grid Labels to provide view tracking information.

Key Projects

- Model view planes.
- Part Navigator initiative.
- PMI convert.
- Design and develop data browser framework for browsing parts.
- Edge Condition Symbols.
- Lightweight drawing views.

Education

Msc. Electronics — University of Nagpur, 2007

CDAC — Pune

Certifications

- Convolutional Neural Networks in TensorFlow
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Mindware: Critical Thinking for the Information Age

Personal Interests

Astrophotography and camera hardware design; Embedded electronics and sensor integration; 3D printing and mechanical design optimization. CAD designing.

Some of my original work and contributions to famous repositories can be found here.

- [Github](#)
- [Printables](#)