

Arjun Dinesh A

R&D Software Engineering Senior Manager

Seasoned Software Engineer with 13 years of experience in creating innovative software solutions to enhance business productivity. Highly experienced in all aspects of software development lifecycle and end-to-end project management, from concept through to development and delivery.

Consistently recognized as a hands-on and competent leader, skilled at coordinating cross-functional teams in a fast-paced, deadline-driven environment to steer timely project completion



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WORK EXPERIENCE

R&D Software Engineering Senior Manager

Dassault Systemes Solutions Lab

Dassault Systemes Solutions Lab is a subsidiary of Dassault Systèmes (www.3ds.com) contributing to the development of world leading software such as CATIA, SolidWorks, Enovia, Simulia, Medidata etc.

08/2010 - Present, Bangalore.

KEY VALUES

Leadership

Technical lead of CATIA Assembly Design, a team of five. Serve backup to Applications Manager, team of nine.

Project Planning

Identify, delegate, monitor and assess tasks of the team. Ensure the product is delivered as per Release Schedules and organizational objectives.

Product Development

Comprehend customer requirements. Generate functional specifications. Create design documents for class diagrams, data model and data structures. Implement new functionalities and algorithms. Geometric modeling and topology.

Product Quality

Quality analysis, performance scalability studies, test automations and maintenance activities on Windows & Linux

UI & UX

Designed and implemented various Assembly Design features from scratch such as Engineering connections, Derived Representation, Threads & Taps Analysis, Context bar commands etc. Redesigned constraints visualization.

Cross Cultural and Cross Functional Team Collaborations

With QA, Customer Support, Documentation, Industry Portfolio (Pre-Sales) and other R&D teams. Geographies include Europe, United States & Japan.

Agile Development

Was part of Arburg Task force in Visualization Sectioning team to converge the product for immediate customer deployment.

Mentor

Training and guiding fresh talent joining DS in the last 5 years in CAA (COM based DS Rapid App Dev Env), R&D Process, Release Tools (Internal Dev-Ops tools)

Technical events

Active participation in organization wide technical events Techathon, Ideathon and various focus groups.

SKILLS

C++, STL, Data Structures and Algorithms, OOPS, Object Oriented Design, Application Development, Windows and Linux, Team Management

PROJECTS

CATIA Assembly Design App Developer

2010-2019. Responsibilities include:

- Adding new features to CATIA Assembly Design desktop app by gathering requirements from customers and internal stakeholders.
- Coming up with detailed technical specification, defining the design and architecture to materialize the specification finalized by employing various C++ concepts like design patterns, data structures and algorithms within the software's release time frames.
- Maintenance of existing features by fixing issues reported and enhancing them to make them more useful to customers.
- Creation of automated tests to protect against regressions.

CATIA Assembly Design App Technical Leader

2019-Present. Responsibilities include:

- Enabling team members to carry out development tasks with right quality by providing technical support, design and architecture guidance and various knowledge sessions, so that each team member achieve autonomy in the long run and thereby increasing the delivery potential of the team.
- Keep the team motivated by providing interesting and challenging tasks even if that means I take up mundane ones.
- Setting clear cut goals and regular assessment to be on track.
- Regular "what works and what not" sessions to gather feedback.

PERSONAL PROJECTS

Parking slot management system

PoC of parking management software developed where vacant slots are tracked and incoming vehicles are guided accordingly to the closest vacant spot. Other than C++, I have limited exposure to JS, Python, .NET and Shell scripting

EDUCATION

B-Tech in Electrical & Electronics Engineering

Government Engineering College, Thrissur (2006-2010)

INTERESTS

Astrophysics, Organic farming and Reading