

Rushikesh Keshavrao Deshmukh

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Github Resume: <https://github.com/rushikdm/resume>

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PRECIS

- 18+ years of overall professional experience.
- 16+ years of experience in software development using C++ for complex problem solving.
- Problem solving skills with Knowledge of data-structures and algorithms, C++ STL etc.
- Delivered several significant performance improvements.
- Emphasis on code quality, flexible design, readable & maintainable code.
- Well acquainted with software engineering processes and methodologies such as SDLC, agile scrum, test driven development etc.
- Detail oriented, meticulous, methodical, cooperative team player with clear written and oral communication skills.
- Always learning attitude with interest in C++, data structures and algorithms, multithreading, Linux OS & programming, embedded programming, deep learning etc.
- I believe in long term relationship with organization that provides organic growth in my career.

SKILLS

Programming languages

C, C++ (98, 11, 14, 17, 20), Java, Python 3, Common LISP, JavaScript, SQL, AVR C programming

Programming frameworks

NX, NXOpen
DELMIA CAA, CNEXT
Web development using J2EE, JSP, struts, spring etc.

Databases: Oracle, MS Access

Scripting: Bash scripting, Python scripting etc.

Multithreading: C++ threads, pthreads.

Domain and Products

CAD: NX Sheet Metal, NX FPCB, AutoCAD, CATIA
CAM: DELMIA Machining
Supply Chain Management

Software Engineering processes

SDLC, Agile Scrum, Test Driven Development, DevOps, UML for documenting software design & architecture etc.

Software Tools: Visual Studio, Eclipse, Star UML, Microsoft word, excel, power point, outlook etc.

Familiar with Linux OS & programming, embedded programming, deep learning, Android app development etc.

EDUCATION

2002 – 2004	M.Tech. in Industrial Engineering & Management Indian Institute of Technology, Kharagpur.	8.46 CGPA
1997 – 2001	Bachelor of Engineering in Production SGGS C E & T, Nanded (MH)	69.85%

CERTIFICATIONS

- APICS CPIM Basics of Supply Chain Management (2006).
- [C++ certificate](#) by Hackerrank (2020).
- [Problem solving certificate](#) by Hackerrank (2020).

EXPERIENCE

Jul-2022 To Present

Software Engineer- Senior



Roles & Responsibilities

- Working as senior software engineer to design and develop NX Industrial Electrical Design ECAD application.
- Support both native and managed modes.
- Support integration with all peripheral applications such as Teamcenter, TIA portal, ECLAAS product import etc.

Products

- NX Industrial Electrical Design.

Technologies

- C++, STL, data-structures & algorithms, NX infrastructure: OM, journation, NXOpen , UIComp, update, usage of diagramming framework etc.

Projects

- Potential type annotation display for electrical connection in multiline sheet (NX2212)
- Support save as for product in native mode (NX2212.3000 MU).

Nov-2010 To Jun-2022 R&D Software Engineerng Senior Manager Dassault Systemes Bengaluru.

11 years 6+ months

My journey: Lead Engineer → Software Engineering Specialist → Software Engineering Senior Specialist → Software Engineering Senior Manager

Company journey: DELMIA Solutions → 3DPLM → Dassault Systemes



Roles & Responsibilities

- Design & develop functionalities under DELMIA Machining, Cutting Tools Builder applications.
- Responsible for toolpath data model for machining operations, tool path repetition, management of cutting tool resources based on ISO13399 standard, import and mount of machining resources, automatic sequencing of machining operations etc.

Products

- DELMIA Machining application.
- DELMIA Cutting Tools Builder application.

Technologies

- C++, DELMIA CAA, CNEXT, UI framework, Test Driven Development tools, tools for solving memory leaks, creation of auto tests for code coverage, continuous integration, delivery etc.

Projects

- Upgrade mechanism for cuttings tools (R2022x), boring assembly (R2019x), multi-usage tool assembly (R2018x), compliance of cutting tool resources as per ISO 13399 (R2018x), xml import of cutting tools (R2017x), toolpath repetition (R2016x), EKL API support for automatic sequencing of machining operations (R2016x), import and mount of cutting tool resources (R2015x), offset on accessory mount (R2014x) etc.

Achievements

- Improved performance 2x times for PPRContext open scenario for Olbrich customer. Reduced time from 90 sec to 45 sec.
- Improved performance nearly 8x times for toolpath simulation scenario for Olbrich customer. Reduced time from 15 min to less than 2 min.
- Performance improvement of more than 60x times for toolpath replay scenario for Renault customer. Reduced time from more than 30 min to less than 30 sec.

Feb-2009 To Nov-2010 *Senior Engineer* PTC India, Pune.
1 year 9+ months



**Roles
&
Responsibilities**

- Worked as Senior Engineer in CoCreate Sheet Metal CAD software product development.
- Instrumental in interacting with team in Germany to gain understanding of the product and technologies.

Products

- CoCreate Sheet Metal CAD software application.

Technologies

- Common LISP programming language, C++
- CoCreate UI framework, application framework, test framework etc.

Jul-2008 To Feb-2009 *Technological Architect* Uniken Systems Pvt Ltd. Pune
6+ months



**Roles
&
Responsibilities**

- Interacted with clients to understand requirements.
- Architecture and design of the solution.
- Guided a team of 4 developers and 1 tester.

Products

- Web application for Advertisement scheduling.
- Supply Chain Management information system web application.

Technologies

- Java, JavaScript, HTML, JSP, J2EE, Struts framework, Spring framework, Oracle database, SQL etc.

Jan-2005 To Jul-2008 *Technical Lead* Seimens PLM
3 years 6+ months

My journey: **Software Engineer** → **Technical Lead**
Company journey: **SDRC** → **UGS Solutions** → **Siemens PLM**



**Roles
&
Responsibilities**

- Worked as developer in NX CAD software product development.
- Responsible for Tab, Contour Flange, Lofted Flange, Transition CAD features in NX.

Products

- NX Sheet Metal application.
- NX Flexible Printed Circuit Board Design application.

Technologies

- C, C++, CAD feature development using NX OM, CMOD Infrastructure, Parasolid, Journamation, NX UI etc.

Projects

- Support of journaling and automation for tab, contour flange, lofted flange features in NX Sheet Metal.
- Single handedly developed new application in NX called Flexible Printed Circuit Board Design.
- Designed and developed new CAD feature called Transition in NX FPCB application.

Jul-2008 To Feb-2009
6+ months

Assistant Manager



**Roles
&
Responsibilities**

- Worked as Assistant Manager in Production Planning & Control Department of Bharat Forge.
- Involved in developing production plans for forged products in various shop floors.
- Interacted with sales department to gather the sales plan and data.

PERSONAL INFORMATION

Languages

English, Hindi, Marathi, Telugu (Read, write & speak)

Hobbies

Reading, writing, puzzle solving.