E1-32 State Bank Nagar, NCL, Pashan, Pune, India

№ +91 989 025 1406
 ⋈ yogeshkulkarni@yahoo.com
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Yogesh Kulkarni

16+ years in CAD/Engineering software development. Recently finished PhD in Geometric Modeling. Exploring training opportunities in domains such as Geometric Modeling, CAD, Data & Text Analytics, Natural Language Processing, Machine Learning and Deep Learning.

Education

- 2012 17 **PhD Mech Eng**, College of Engineering Pune, India.
 - Research: Designed and developed novel geometric algorithms for computation of mid-surface, claiming superiority over the existing academic and commercial approaches. Implementation has been done using Autodesk Inventor® APIs, VB.Net, C#.Net, C++.
 - Publications: 5 International Journals, 4 International and 1 National Conferences.
- 2007 08 PGD Business Mgmt, Symbiosis Inst of Mgmt Studies, India, Distinction.

Courses:

- o Principle and Practices of Management, Statistics & Quantitative Techniques
- o Human Resource Management, Marketing Management, Strategic Management
- o Managerial Economics, Basic Accounting, Organizational Behavior
- o Business Law, Cost & Management Accounting, Production Management
- 1994 96 MS Mech Eng, Kansas State University, USA, GPA: 4.0/4.0.

Courses:

- Intro to Computer Aided Design, Geometric Modeling
- o Finite Element, Adv Finite Element Method
- Theory of Elasticity, Modeling and Simulation
- o Research: Development of Orthohedral Solid Modeling Kernel
- 1990 94 BE Mech Eng SW, College of Engineering Pune, India, 73.64% Univ Topper.

Marks:

- 1st year : 71.58%
- o 2nd year: 75.04% (Rank 1 in Univ of Pune)
- 3rd year: 74.91% (Rank 4 in Univ of Pune)
- 4th year: 72.17% (Rank 1 in Univ of Pune)
- 1988 90 12th Science, Sir Parshurambhau College, Pune, India, 87% Distinction.
- 1983 88 10th, Sou Vimlabai Garware High-school, Pune, India, 88% Distinction.

Experience

- Oct 2016 Consultant-Trainer: Data-Text Analytics, Stealth mode startup, Pune, India.
 - Present Developing PoCs for Document Similarity, Summarization, IoT Dashboards, etc.
 Using Python ecosystem with libraries such as Pandas, BeautifulSoup, Regual Expressions, Scikit Learn,
 Nltk, Bokeh, Gensim Word2vec, TensorFlow, etc.
- Aug 2016 Adjunct Professor/Co-Teacher, College of Engineering Pune, (CoEP), Pune.
 - Present Subjects: Numerical Methods, Parametric Curves, Inventor Customization.
- Jul 2013 Doctoral Research Scholar, College of Engineering Pune (CoEP), Pune, India.
- Sep 2016 Topic: Development of Algorithms for generating connected midsurface using feature information in thin-walled parts. VB.Net, C#. Taught CAD/CAM lab, Industrial Mgmt.
- Dec 2006 Software Development Manager, Consumer Products, Autodesk, Pune, India.
- Jul 2013 (Hanna Technologies -> Autodesk). Started as Sr Developer and Tech Lead for Inventor Plastics, Fusion, 123D, then Software Development Manager for R&D projects in the consumer domain with responsibilities such as Design Reviews, Project Management, Communication-Coordination, People Management, Internships, Overall Site Management, etc.

- Dec 1998 Software Engineer Advanced, Siemens UGS PLM Software, Pune, India.
- Nov 2006 Geometric->SDRC->EDS->UGS (Siemens). Started as Sr Developer for I-DEAS Simulation project "Midsurface". Project Manager-Tech Lead for I-DEAS "Shell" Modeling. Tech Lead at Unigraphics for "Part Navigator" and "Trimmed Sheet". Advanced Topology Foundation (ATF).
- Dec 1997 Project Manager, Sutra Systems, Pune, India.
- Nov 1998 Leading a team for projects by Japanese Clients. Worked in Tokyo for couple of months for Matlab-Simulink projects.
- Oct 1996 Software Engineer, Parametric Technology Corporation, Boston, USA.
- May 1997 In R & D Mechanical Assemblies Pro/Engineer and Data Transfer module of Pro/Intralink
- Jan 1994 Intern Engineer, Tata Motors, Pune, India.
- May 1994 Testbed for simulating the effect of pre-stretching on accuracy of the cam-boring.
 - Assisted in the development of software for inverse kinematics of a spot welding robot.
- Jun 1992 Intern Engineer, Tata Motors, Pune, India.
- Dec 1992 Designed sheet metal dies and fixtures for components.

Publications

- May 2013 Using Features for generation of Midsurface, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, Intl. Conf. on Advances in Mech Eng, COEP, India.
- Dec 2013 Strategies for using feature information in model simplification, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, Intl. Conf. on CAE, IIT Madras.
- Jan 2014 Midcurves Generation Algorithm for Thin Polygons, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, Natl. Conf. on Emerging Trends in Eng and Science, Asansol.
- Dec 2014 Formulating Midsurface using Shape Transformations of Form Features, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, 5th Intl. and 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR), IIT Guwahati.
- May 2015 **Topological Validation of Midsurface Computed from Sheet Metal Part**, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, CAD and Applications, **Taylor & Francis**.
- June 2015 Defeaturing Sheet Metal Part Model based on Feature Information, Yogesh Kulkarni, RK Gupta, Anil Sahasrabudhe, Mukund Kale, Alain Bernard, CAD Conf London, Taylor & Francis.
- April 2016 Leveraging feature information for defeaturing sheet metal feature-based CAD part model, Yogesh Kulkarni, RK Gupta, Anil Sahasrabudhe, Mukund Kale, Alain Bernard, CAD and Applications, Taylor & Francis.
- July 2016 Computation of Midsurface by Feature-based Simplification-Abstraction-Decomposition, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, Journal of Computing and Information Science in Engineering, ASME.
- July 2016 Leveraging feature generalization and decomposition to compute a well-connected midsurface, Yogesh Kulkarni, Anil Sahasrabudhe, Mukund Kale, Eng with Comp, Springer.
- January Dimension-Reduction Technique for Polygons, Yogesh Kulkarni, Anil Sahasrabudhe, 2017 Mukund Kale, Intl. Journal of Computer Aided Engineering and Technology, Inderscience.

Honors

Topped Univ of Pune in BE Mechanical Engineering (SW- Co-Op).

Membership of Mensa India (Society for top 2% IQ).

National Merit Scholarship for consecutive 6 years.

Recognized PG Teacher (CAD/CAM) at Univ of Pune.

PMP (Project Management Professional - PMI) Certified.