

Solver and GUI Developer Engineer Solver and GUI Developer Engineer Solver and GUI Developer
 Engineer - Adams Tire Data and Fitting Tool Santa Clara, CA 16 years of software application in
 the CAE arena 8 years of CAE software design and development experience Pursuing
 opportunities in CAE or software development field Authorized to work in the US for any employer
 Work Experience Solver and GUI Developer Engineer Adams Tire Data and Fitting Tool May 2011
 to Present Solver Message Threading Adams Tire Data and Fitting Tool design and development
 Adams Leaf Spring Toolkit design and development Adams Isolator-Parameter Identification and
 Hydromount-Parameter Identification improvement FMI design and development in
 Adams/Mechatronics Improvement and defect fixing of Adams product family: Car, Ride,
 Mechatronics, Driveline, etc Adams regression test and code coverage of Adams family products
 MSC Software Sweden G, S Developer Engineer/Technical Consultant February 2004 to May 2011
 Volvo Car Durability September 2010 to April 2011 BMW April 2010 to September 2010 4Subsea,
 Pipe modeling by A/View customization, Mar 10-Apr 10 ABB, Beam Spring UDE implementation,
 Nov 09-Feb 10 SimManager August 2009 to October 2009 MSC, Gear Geometry Generation, May
 09-Jul 09 MSC, Rotor stress analysis toolkit design and implementation, Nov 08-Apr 09 Scania
 Bus September 2008 to October 2008 Adams Tire Testrig March 2008 to August 2008 MSC, Python
 instructor for internal and external groups, June 06 Adams February 2007 to February 2008
 Porsche, ISO December 2006 to February 2007 Volvo Car Transmission November 2006 to
 January 2007 Volvo Car Vehicle Dynamics September 2006 to October 2006 Ford Cologne March
 2006 to August 2006 Volvo Car Durability October 2005 to January 2006 Volvo Car Vehicle
 Dynamics, Car shake and transient insulation optimization - Transmission rattle noise ABB July
 2004 to August 2005 V, S Stam Sanat Co June 2003 to December 2003 Optimal robot positioning
 algorithm development using RobotStudio and Matlab Stam Sanat Co (Valeo licensee) T, I
 Technical Engineer in Design and Maintenance Departments Auto Part Group November 2001 to
 September 2002 Installation of automobile starter and alternator assembly line Software (PLC
 program) and hardware maintenance of fully automated assembly lines Computerize parametric
 solid modeling (CAD/CAM) using SolidWorks Auto Part Group T, I Technical Engineer in Design

and Manufacturing Departments November 1999 to November 2001 Design, manufacturing and maintenance of metal and plastic injection molds using Mechanical Desktop, AutoCad, EdgeCam Computerize surface and solid modeling of automotive parts (CAD/CAM) Machine and tool design CNC and CMM machine operation and workshop supervision KNTToosi Uni Tech/Sharif Uni Tech T, I Teaching Assistant Dynamics and Advanced Mathematics 1995 to 1998 Graduate Course) Education Automotive Engineering Chalmers University of Technology September 2002 to November 2003 Master in Mechanical Engineering Sharif University of Technology September 1996 to October 1998 Bachelor in Mechanical Engineering KNTToosi Uni Tech September 1996 to October 1998 Skills Python (7 years), C++ (1 year), Adams (10+ years), Simulation (10+ years), Programming, Programming (10+ years), Matlab (2 years), Software Development (5 years) Additional Information Skills Software design and implementation, with(in) a team: Python/PyQt/Adams Command Language [advanced], C++/Matlab/Fortran [experienced], Javascript/Perl/VB [skillful], Visual Studio, version control system (Perforce/Clearcase), build systems (Makefiles), release management tools (Jira, Jenkins), agile process, CAE programs Adams, Nastran, iSight, ModeFrontier, SolidWorks, Hypermesh, RobotStudio, Mechanical Desktop, EdgeCam, Working Model Natural languages: English (fluent), Swedish (fluent), Persian (native), and Kurdish (native) Patent and Selected Publications US and EU Patents on Method for optimizing the performance of a robot, with D. Wappling, X. Feng, V. Berbyuk, US# 8,401,698, Publication No. WO/2005/049284 Optimal Usage of Robot Manipulators, B. Kamrani, V. Berbyuk, D. Wappling, X., Feng, H. Andersson; Book Chapter in Robot Manipulators, Trends and Development, ISBN: 978-953-307-073-5 Optimal Robot Positioning Using Response Surface Method, B. Kamrani, V. Berbyuk, D. Wappling, X. Feng, U. Stickelmann; International Journal of Advanced Manufacturing Technology, 2008

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