

# Reza Taghipour Paein Koulaei

<b>Objective</b>	The position as a graduate student to utilize my knowledge in Mechanical Engineering.
<b>Personal Information</b>	<b>Date of Birth:</b> September 9 1979. <b>Place of Birth / Citizenship:</b> Sari / Iranian.
<b>Education</b>	1997-2001 <b>Sharif University of Technology</b> Tehran, Iran B.Sc. in Mechanical Engineering-Naval Architecture <ul style="list-style-type: none"><li><b>GPA:</b> <u>14.39</u> out of 20.</li></ul> 1993-1997 <b>National Organization for Developing Exceptional Talents</b> Sari, Iran Diploma in Mathematics & Physics <ul style="list-style-type: none"><li><b>GPA:</b> 18.92 out of 20.</li></ul>
<b>Awards and Honors</b>	1. Ranked 12 <sup>th</sup> among 156 graduate participants in M.S. program entrance exam for Master of science in Mechanical Engineering/Naval Architecture. 2. Ranked 684 <sup>th</sup> in Iranian university entrance exam (among 1'500'000 participants). 3. Ranked 2 <sup>nd</sup> in provincial scientific exam.
<b>Academic Interests</b>	<b>Robotics, Machine Design, Structural Dynamics, Computational Mechanics, Simulation Techniques in Mechanical Systems</b>
<b>Publications</b>	1. Daghigh, M., Paein Koulaei, R.T., Seif, M.S., 2002, " <b>Mooring System Design and Analysis For the Floating Bridge of Urmia Lake</b> ", Proceedings of OMAE'02, 21 <sup>st</sup> International Conference on Offshore Mechanics and Arctic Engineering, Oslo, Norway, Paper No.28-343 2. Behzad, M., Shamsaee, N., Danesh Sararoudi, M., Paein Koulaei, R.T., 2002, " <b>Effects of Shear Terms on Static Stiffness and Dynamic Response of Tee Joints</b> ", ESDA2002, 6 <sup>th</sup> Biennial Conference on Engineering Systems Design and Analysis, Istanbul, Turkey, Paper No. APM048 3. Manzouri, M.T., Karimian, P., Paein Koulaei, R.T., Motamed, M., Mottaghi, R., Sabzmejdani, P., <b>Sharif CESR Small-Size team description for RoboCup 2002</b> , RoboCup 2002: Robot Soccer World Cup V, Springer, 2002.

<p><b>Teaching Experience</b></p>	<p>“Statics”, T.A., Sharif U of Tech., <b>Spring 02.</b></p> <p>“C Language”, T.A., in Sharif U of Tech., <b>Spring 01 and Fall 01.</b></p> <p>“Ocean Engineering”, T.A., Sharif Univ of Tech., <b>Fall 00 and Spring 01.</b></p>
<p><b>Selected Course Related Projects</b></p>	<p><b>B.S Dissertation:</b> Performed analysis on Mooring effect in vessels with specific concentration on floating bridges for the application in Floating Bridge of Urmia Lake.</p> <p><b>Naval Architecture-Static:</b> Hydrostatic Analysis programming used for a general cargo ship.</p> <p><b>Naval Architecture-Dynamic:</b> Computational Structural Engineering Program used in analysis of wave and current induced forces acting on a Pile in sea.</p> <p><b>Ship Structure 1:</b> Programming for standard Design and Optimization used in a general Cargo Career.</p> <p><b>Propulsion Machinery 1:</b> Programming used for Pump Design.</p>
<p><b>Working Experience</b></p>	<p><b>Since Fall 2002:</b> ME group, <b>SharifCE RoboCup Middle-Size Soccer Team:</b> Machine Design, Design Optimization, Manufacturing, Mobile Robotics, and Simulation used for a group of fully autonomous soccer player robots for RoboCup03 competitions and conferences, Padua, Italy.</p> <p><b>Fall 2001 to Summer 2002, Sharif CESR Small Size Soccer Team:</b> Machine Design, Design Optimization, Manufacturing and Simulation used for a group of fully autonomous soccer player robots for RoboCup02 competitions and conferences, Fukuoka, Japan.</p> <p><b>Summer 2001: B.F. Marine Co.:</b> Software Eng. for Marine Eng. Applications esp. Gearbox Design and Simulation.</p> <p><b>Spring 2000 to Summer 2001, ME Design Team, Farnaas National Project Center:</b> Machine Design, Design Optimization and Simulation.</p> <p><b>Fall 2000:</b> Aero 2000 Conference Team, <b>Sharif U of Tech.:</b> Simulation</p> <p><b>Summer 2000:</b> Marine Engineering and Naval Architecture Laboratory, <b>Sharif U of Tech.:</b> Model Design, Manufacturing and testing.</p> <p><b>Fall 99 to Fall 2000:</b> Mobile Robot Nurse Project, <b>Sharif U of Tech.:</b> Design and Simulation.</p> <p><b>Summer 99: Iran Sadra Shipyard:</b> Software engineering for hydrostatic analysis used for Iran-Tondar cargo career.</p>

<p><b>Computer Environment Familiarities</b></p>	<p>Microsoft Windows 98/NT/2000/ME/XP, MS-DOS, Pascal, C, Visual Basic, Matlab, Maple, AutoCAD, Mechanical Desktop, MS Project, Working Model, Table Curve, Autoship, Autohydro, 3D Studio Max (Simulation), Microsoft Office (Excell, Word, Power Point).</p>
<p><b>Extracurricular Activities &amp; Hobbies</b></p>	<p>Member of the <b>ME Department Student Branch magazine</b> (Nameh Mechanic Sharif), <i>Fall 97</i> to <i>Fall 00</i>.</p> <p><b>Music, Fishing, swimming, gardening and computer science(Animations, Graphics, Programming )</b></p>
<p><b>Language Proficiency</b></p>	<p><b>Fluent in English</b>  <b>Toefl:</b> CBT <b>243</b>, Dec. 01, <b>GRE: 1770</b> (Ver.410, Quan.770, Anal.590)</p> <p><b>Persian Mother tongue</b></p> <p><b>German</b> has been studied at German Embassy's Language Ins. For 500 hours and good level.</p>