SIAVASH TAVAKOLI

Curriculum Vitae

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Education

2005–2009 **Bachelor of Science in Mechanical Engineering**, *K. N. Toosi University of Technology,* Tehran, Iran, *GPA − 14.31 on a scale of 20*.
Thesis Title: Implementing the software of ASARun Driving Simulator in C++, Under supervision of Dr. Ali Nahvi

2001–2005 **Allame Helli High School**, *National Organization for Development of Exceptional Talents*, Tehran,Iran.

Research Interests

- Mechatronics
- Virtual Reality
- Software Development For Engineering Applications
- Robotics
- Real Time Systems
- Control Systems

Publications

Journal Papers

- *"An Optimal Washout Filter for the Asarun Driving Simulator"* (to be submitted)
- *"An Adaptive Washout Filter for the Asarun Driving Simulator"* (to be submitted)

Conference Papers

- **Siavash Tavakoli**, Mehdi Tale Masouleh, *"A Real-Time Graphical User Interface for Kinematic Analysis of the Gough-Stewart Robot"*, 21st Iranian Conference on Electrical Engineering ICEE2013 (IEEE Iran section), Mashhad, Iran (Submitted)

- Iman Yahyapour, Milad Hasanvand, Mehdi Tale Masouleh, Mojtaba Yazdani, **Siavash Tavakoli**, *"On the Inverse Dynamic Problem of a 3-PRRR Parallel Manipulator, Tripteron"*, First RSI/ISM International Conference on Robotics and Mechatronics ICRoM 2013, Tehran, Iran (Accepted)

- Iman Yahyapour, Milad Hasanvand, Mehdi Tale Masouleh, Stèphane Caro, Mojtaba Yazdani, **Siavash Tavakoli**, *"Inverse Dynamic Problem of Two Parallel Mechanisms with Identical Limbs Structures"*, ECCOMAS Thematic Conference on Multibody Dynamics 2013, Zagreb, Croatia (submitted)

Research Experiences

Jan. 2008 – Dec. 2009
Reasearch Assistant, *Virtual Reality Lab*, K. N. Toosi University of Technology, Tehran, Iran.
- Member of ASARun driving simulator team (designing and implementing the first driving simulator with a -3 degree of freedom- moving platform in Iran)

Dec 2009 – Present
Reasearch Engineer, *Virtual Reality Lab*, K. N. Toosi University of Technology, Tehran, Iran.
- Design and implementation of an optimal washout filter for the Asarun driving simulator
- Design and implementation of an adaptive washout filter for the Asarun driving simulator

Jan 2012 – Present
Reasearch Engineer, *Dr Tale Masouleh's Research Group*, University of Tehran, Tehran, Iran.
- Developing a Graphical User Interface for the kinematic analysis of the Gough-Stewart platform
- Position control of pneumatic actuators for a 6 DOF parallel robot, SGP (in progress)
- Position control and interfacing of a 3 DOF parallel robot, Tripteron (in progress)

Honours and Awards

2007
Awarded the best product prize in the "Outcomes of Iran's ministry of science and reasearch" fair as a member of ASARun driving simulator team.

2005
Ranked 880th among nearly 330000 participants in nationwide university entrance exam

Computer Skills

Languages
C/C++/C# (fluent) – Proficient in Qt and .Net frameworks, Matlab (advanced), Python/Visual Basic/Pascal (intermediate), Digital Typesetting via LATEX(intermediate)

Applications
Catia, Solidworks, Matlab and Simulink, Ansys, Microsoft Office, OpenOffice

Operating Systems
GNU/Linux (various distributions), MS Windows

Languages

Persian
Mothertongue

English
Advanced, TOEFL iBT score: 97 (Listening: 28, Reading: 25, Speaking: 20, Writing: 24)

References

Dr. Ali Nahvi, *Assistant Professor*,
Mechanical Engineering Faculty
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Web Site: http://sahand.kntu.ac.ir/~nahvi/
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Dr. Mehdi Tale Masouleh, *Assistant Professor*,
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