

Sarvenz Chaeibakhsh

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EDUCATION

Pre-University : In Mathematics & Physics, Manzoomeh-Kherad high school.
University : Bachelor of Mechanical Engineering, expected January 2014,
Khaje Nasir University of Technology.

Related Optional Undergraduate Courses

Dynamical System, Machine Dynamics, Machine Design, Measurement Systems

Optional Graduated Courses

Robotic 1, Instructor: Dr. F. Najafi, Mechatronic 1, Instructor: Dr. F. Najafi

RESEARCH INTERESTS

- Robotics (Design, Dynamics, Manufacturing)
Mobile Robots, Biorobotics, Industrial Robots
- Parallel Mechanisms (Spherical and Planar)

SKILLS

CAD Software: SolidWorks (Expert)
Programming Software: C, C++, C++/MEX, Matlab

LANGUAGES

English TOEFL: overall 101 (Reading 25, Listening 28, Writing 25, Speaking 23)
Persian Native

PUBLICATIONS

- "Minimal-degree Polynomial Representation of the Singularity Loci of 3-DOF Planar Parallel Mechanisms", S. Chaeibakhsh, M. H. Farzaneh Kaloorazi, M. Tale Masouleh, Third IFToMM International Symposium on Robotics and Mechatronics (ISRM 2013), 2-4 October 2013, Nanyang technological University, Singapore- But Withdrawn
- "Kinematics of a Spherical Parallel Mechanism with Identical Limb Structures Using the Linear Implicitization Algorithm and Euclidean Geometry", S. Chaeibakhsh, M. H. Farzaneh Kaloorazi, M. Tale Masouleh, IEEE indexed, First RSI/ISM International Conference on Robotics and Mechatronics (ICROM 2013), 13-15 February 2013, Sharif University of Technology, Tehran, Iran

HONORS AND AWARDS

- Winning "Using Pioneer technologies" prize, Robotic Demo league, IranOpen (2013)
- Appreciation plate for being a responsible supervisor of robotic teams, Manzoomeh-Kharad high school (2011)
- Appreciation plate for being the best robotic group in Manzoomeh-Kherad high school (2007)

- Appreciation plate and medal for winning third prize in the 2nd International Young Mathematicians Convention (IYMC) (2006-India)
- Winning first prize in a painting competition held by UNISEF (2000)

EXPERIENCES

Work experiences

- K. N. Toosi University of Technology
 - Nasir Driving Simulator Group (Virtual Reality Lab.)
 - * Presenting the Nasir Driving Simulator on: 11th International Traffic Engineering Conference (2012), 3rd International Traffic Accidents Conference (2012), 9th International Transportation and Public Services exhibition (2011), 11th Tehran Industry exhibition (2011)
 - * Public relation manager of Nasir Driving Simulators projects (2011-2012)
 - Supervisor of LEGO robotic teams (2009)
- Manzoomeh-Kherad institute
 - Manager of engineering associations (2012 to date)
 - Supervisor of robotic teams (supervising on designing and manufacturing different kinds of robots) (2009 to date)
 - Teaching physics (2007-2008)
- Enerchimi Engineering Co.
 - Summer research on study on piping, pumps and oil as a trainee (2010)

Teaching Experiences

Manzoomeh-Kherad Institute

Teaching basic fundamentals of mechatronics (2012 to date), Teaching SolidWorks (2011 to date), Teaching Engineering Drawing (2011 to date), Teaching Physics (2008)

Khaje Nasir Toosi University of Technology

Teacher assistant in surveying I (Engineering Drawing), K. N. Toosi university of technology (2010 to 2012), Teaching SolidWorks in school of Mechanical Engineering, K.N Toosi university of technology (2010 to 2012)

Teaching Physics to private students (2008)

Laboratory and Research Experiences

- Design and manufacture of group of nurse robots (2013-date)
- Design and manufacture of an exploration rover, using kinect to send commands to it(2012-2013).
- Solving forward kinematic problem of 3-DOF parallel mechanisms performing spherical and planar motion using Euclidean geometry in Cartesian space, Supervisor: Dr. Mehdi Tale Masouleh (2012 to date).
- Design and manufacture a smart white board eraser (2012).

- Solving forward kinematic problem of 3-DOF parallel mechanisms performing spherical and planar motion using the Linear Implicitization Algorithm, Supervisor: Dr. Mehdi Tale Masouleh (2011-2012).
- Design and manufacture of five city-bus driving simulators (2011).
- Design and manufacture of a Deminer robot (2011).
- Design, kinematic and dynamic simulation of a group of rescue robots (2011).
- Design and manufacture of a wall-climber robot(2010-2011).
- Design and manufacture of a novel robot with the ability of changing its size (2010-2011).
- Design, kinematic and dynamic simulation of a hexapod SCORPION robot (2010).
- Research on a haptic robot, which has been used to find breast cancer tumors (2009).
- Design and manufacture of VirSense, a novel haptic device with fixed-base actuators and automatic gravity compensations for bone surgery and dental applications (2008-2009).
- Design and manufacture of a Path-Finder robot (2007).
- Design and manufacture of a Line-Tracer robot (2006).
- Signal filtering with Butterworth filter using Op-Amps, Measuring systems course project, Instructor: Dr. A. Nahvi (2011).
- Design a screw clamp, Mechanical Engineering design course project, Instructor: F. Shahverdi (2011).
- Design and implantation of P, PI, and PID controllers, Automatic control course project, Instructor: Dr. A. Qaffari (2010).

HOBBIES

Horse back riding, Swimming, Mountain climbing, Travelling, Painting.

REFERENCES

Dr. Ali Nahvi	nahvi@kntu.ac.ir
Dr. Ali Mousavian	moosavian@kntu.ac.ir
Dr. Farid Najafi	fnajafi@kntu.ac.ir
Dr. Ali Ghaffari	ghaffari@kntu.ac.ir
Dr. Mehdi Tale Masouleh	mehdi.tale.masouleh@gmail.com
Farid Shahverdi	shahverdi@kntu.ac.ir