


Mechanical Engineering Department
Mechatronics Branch, Faculty of
Engineering
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<p>Information</p>	<p>Name: Abdel-Nasser Sharkawy Ahmed, M.Sc. Birth date: 29/9/1991 Place of birth : Nag Hammadi – Qena - Egypt. Sex: Male Marital status: Single Nationality : Egyptian Military Status: Finished</p>  <p><u>Expertise Summary:</u></p> <p>Sharkawy graduated with a first class honors degree (B.Sc.) in May 2013 from Mechanical Engineering department (Mechatronic Engineering), South Valley University (SVU) and followed this nomination as a demonstrator (teaching assistant) at the same university. Sharkawy received M.Sc. degree in April 2016 . His M.Sc. study at South Valley University was about Intelligent Control on Active Suspension System. In this study, he used PID, Fuzzy Logic and robust controllers for Active Suspension System of a quarter car model to improve the car model performance. Currently, Sharkawy is an assistant lecturer at Mechanical Engineering Dept.(Mechatronic), Faculty of Engineering, SVU, Qena, Egypt.</p> <p>Sharkawy has strong experience in using MATLAB program. He designed mathematical modeling , control (by using PID controller, Fuzzy Logic Controller "intelligent controller", H^∞ Controller and μ-Controller) and simulation work for passive and active suspension system. The main objectives were to decrease the vibration of the vehicle and improve ride comfort and road handling. The car performance such as car body acceleration, suspension travel and dynamic tyre load were measured to compare the active suspension system with a passive suspension system. According to the comparison, it showed that the proposed system (active suspension system) achieved better performance and the desired objectives.</p> <p>Sharkawy has a good command in Mechatronic systems, Robotics, Automatic Control, Artificial Intelligence, Sensors, Measurements and MATLAB. He taught the following courses as a teaching assistant for over two years; Engineering Mathematics, Automatic Control, Engineering Drawing, Theory of Machines, Hydraulic systems, Machine Design, and Vehicle Dynamics. He actively participates in various research areas within the group, which activities are mostly related with advanced/smart applications. He is easy going, enthusiastic, self-motivated and straightforward person. He attended lots of workshops.</p> <p>Sharkawy has published two international peer-reviewed papers in scientific journals; (International Journal of Advances in Engineering & Technology, IJAET and International Journal of Vehicle Structures & Systems, ijvss). The papers were concern on PID and robust controllers on Active Suspension Systems for a quarter car model.</p>
<p>Faculty Academic Appointment</p>	<p>Demonstrator(Teaching Assistant):19/9/2013–7/5/2016 at Mechanical Engineering Department (Mechatronics Branch) , Faculty of Engineering , South valley University, Qena, Egypt.</p> <p>Assistant Lecturer: Starting in 8/05/2016 at Mechanical Engineering Department (Mechatronics Branch) , Faculty of Engineering , South valley</p>

	University, Qena, Egypt.
Interests and Activities	<p>Mechanical Eng, Mechatronics Eng</p> <ul style="list-style-type: none"> ▪ Mechatronic Systems. ▪ Automatic control. ▪ Sensors and Measurements. ▪ Robotics. ▪ Hydraulic. ▪ Automotive Electronics. ▪ Machine Design. <p>Traveling Taking care of family, friends and others Providing social counseling and guidance</p>
Honors and Prizes	<p><i>Certificates during B.Sc. Study.-</i></p> <ul style="list-style-type: none"> ✚ Certificate of Achievement from Canadian Training Center of Human Development "CTCHD" after completing a comprehensive seminar in "Skills of Success" on 28/5/2010. ✚ Certificate of Appreciation from South Valley University for having the second class honor degree (B.Sc) on faculty of Engineering with GPA :3.48/4 or B+ in 2008/2009. ✚ Certificate of Appreciation from South Valley University for having the first second class honor degree (B.Sc) on Mechanical Engineering Dept. with GPA :3.65/4 or B+ in 2010/2011 ✚ Certificate of Appreciation from South Valley University for having the first class honor degree (B.Sc) on Mechanical Engineering Dept. with GPA :3.87/4 or A- in 2011/2012. <p><i>Certificates during Teaching Assistant Appointment.-</i></p> <ul style="list-style-type: none"> ✚ Scientific Publication Award from South Valley University which Awarded me as I was a good researcher on 2015.
Education	<p>B.Sc. “ Mechanical Engineering Dept. (Mechatronics) ” with accumulative average grade “Very Good with honors or B+ (GPA : 3.67/4 With Credit Hour System) and I hold the first order on my faculty”, Faculty of Engineering, South Valley University, June 2013.</p> <p>Thesis Title "Graduation Project": “Design and Implementation of 6-DOF Robot Arm”</p> <p>Thesis Advisor: Dr.Ammar Mustafa Hassan</p> <p>M.Sc. in “Mechatronic Engineering” with thesis entitled “Intelligent Control on Active Suspension System” in 26th April 2016, Mechanical Engineering Dept., South Valley University.</p> <p>Thesis Advisor: Prof.Dr.Gamal Tag Abdel-Jaber & Dr.Ahmed Saad Ali & Dr.Nouby Mahdy Ghazaly</p> <p>Graduation Defense was at 26th March 2016 and the committee defense members strongly agreed for graduation Mr. Sharkawy and getting him a M.Sc. degree from South Valley University.</p> <p>In Preliminary Courses: I had the first class honor degree with GPA :3.83/4 or A- “Excellent”.</p>
Experiences	<p><u>Teaching Assistant</u></p> <p>Having Good Experience for Giving Exercises of the following undergraduate courses:</p>

	<ul style="list-style-type: none"> ☐ Engineering Mathematics ☐ Mechatronic systems. ☐ Sensors and Measurements ☐ Automatic Control. ☐ Robotics and Automotive. ☐ Hydraulic. ☐ Machine Design. <p>Air Defence Research and Development Centre during Military service (03/2014 –03/2015)</p> <ul style="list-style-type: none"> ☐ I worked as a member in a group on <u>a robot project</u>; The concern of the study was on design mechanical parts of robot and doing a programmable system for it. After implementing it, we made several tests to examine its efficiency. ☐ Designing Printed Circuit Board(PCB). ☐ Working on welding “Eye surveillance units” electronic board.
Languages	<p>Mother Tongue : Arabic Second Language: English Basic of: French Language</p>
Computer Languages and skills	<p><u>Computer and language Skills</u></p> <ul style="list-style-type: none"> ☐ Proficient user of MATLAB program. ☐ AutoCAD. ☐ ICDL, Microsoft Office and Computer Maintenance. ☐ Good knowledge of computer programming (Visual basic,c++). ☐ Good Knowledge in Solid Work and Power Shape. <p><u>Interpersonal Skills:</u></p> <ul style="list-style-type: none"> ☐ Very good skills in a scientific research. ☐ Learn from mistakes and change behavior as a result of what is learnt. ☐ Ability to work well under pressure. ☐ Ability to learn new tasks quickly. ☐ Good communication and negotiation skills. ☐ Flexible, motivated, committed to team work, hard worker & punctual.
Training	<p><i>Training during B.Sc. Period in Egypt:-</i></p> <ul style="list-style-type: none"> ☒ The Aluminum Company of Egypt in 07/2010 (2 weeks) with grade "Excellent". ☒ The Aluminum Company of Egypt in 08/2011 (2 weeks) with grade "Excellent". ☒ The Aluminum Company of Egypt in 07/2012 (2 weeks) with grade "Excellent". ☒ Nag-Hammadi 500 kV Substation from 24/7/2011 to 11/8/ 2011 (3 weeks) with grade "Excellent". ☒ JELECOM Company for completing training course "<u>PLC Applications Basic Training</u>" from 25/6/2011 to 7/7/2011 (2 weeks) with grade "Excellent". ☒ JELECOM Company for completing training course "<u>Microchip Microcontroller Applications Basic Training</u>" from 23/6/2012 to 5/7/ 2012 (2 weeks) with grade "Excellent". ☒ Qena Vocational Training for completing "<u>Refrigeration and Conditioning training</u>" in 09/2010 (2 weeks). ☒ Qena Vocational Training for completing "<u>Three-phase motor winding training</u>" in 09/2011 (1 week). ☒ British Center "B.C.A.C" for completing "<u>ICDL (English) training</u>" in 08/2010 (1 month). ☒ British Center "B.C.A.C" for completing "<u>Visual Basic training</u>" in 02/2010 (2 weeks) with grade "very good ".

	<p><i>Training during Demonstrator Appointment in Egypt:-</i></p> <ul style="list-style-type: none"> ☒ JELECOM Company for completing training course "<u>Autocad 2D Basic application</u>" from 25/9/2013 to 2/10/2013 (1 week) with grade "Excellent". ☒ A three days (5-7,May, 2015) workshop on Credit hours and their application performance at Faculty and Leadership Development Center (FLDC), South Valley University. ☒ A three days (9-11,May, 2015) workshop on Competitive research projects at (FLDC), South Valley University. ☒ A three days (12-14,May, 2015) workshop on Communication skills in different education methods and Training on Graphics Program "Adobe Photoshop" at (FLDC), South Valley University. ☒ A three days (19-21,May, 2015) workshop on university management at (FLDC), South Valley University. ☒ A ten days (6-16,June,2015) workshop on university teacher preparation at Faculty of Education, South Valley University.
<p>Published Papers</p>	<p><i>Published Papers during M.Sc. Study:-</i></p> <ol style="list-style-type: none"> 1. Abd El-Nasser S. Ahmed, Ahmed S. Ali, Nouby M. Ghazaly, G. T. Abd el- Jaber "PID Controller of Active Suspension System for a Quarter Car Model" International Journal of Advances in Engineering & Technology (IJAET), ISSN: 2231-1963 , Volume 8, Issue 6, pp. 899-909, December 2015. http://www.ijaet.org/media/3130-IJAET0830236-v8-iss6-pp899-909.pdf 2. Nouby M. Ghazaly, Abd El-Nasser S. Ahmed, Ahmed S. Ali, G. T. Abd el- Jaber "H∞ Control of Active Suspension System for a Quarter Car Model" International Journal of Vehicle Structures & Systems (ijvss), ISSN: 0975-3060 (Print), 0975-3540 (Online) , Volume 8, Issue 1, pp. 35-40, 2016. http://maftree.org/eja/index.php/ijvss/article/view/404
<p>Conferences</p>	<ol style="list-style-type: none"> 1. Abdel-Nasser Sharkawy Participated in S3EDY STARTUP Conference to promote business leadership and development of small projects under the care of Integrated Technology Academy of Scientific Research and Technology Transfer Unit (ITTU) of Assuit University and Academy of Scientific Research and Technology ,Upper Egypt development center,Karaman Island,Sohag,Egypt, April 21-23, 2016.
<p>Refrees</p>	<ol style="list-style-type: none"> 1. Prof. Dr. Gamal Tag Abdel-Jaber, Dean of Faculty of Engineering,South Valley University,Qena,Egypt. Mobile phone: 002-012-2460-6651 002-010-9903-8170 E-mail:gtag2000@yahoo.com 2. Prof. Dr. Ali Mahmoud Abdel-Tawwab, Professor of Vehicle Dynamics and Head of Automotive and Tractor Engineering Department,Minia University,Minia,Egypt. Mobile phone: 002-010-1848-5866 E-mail: ali_tawwab@hotmail.com 3. Dr Ahmed Saad Ali ,Assistant Prof. in Mechanical Engineering Dept.,Mechatronics Engineering,Assuit University,Assuit,Egypt. Mobile phone: 002-011-4584-8881 002-010-9470-0378 E-mail:ahmedsaad01@yahoo.com

	<p>4. Dr Nouby Mahdy Ghazaly, Assistant Prof. in Mechanical Engineering Dept., Automotive and Tractor Engineering, South Valley University ,Qena, Egypt. Mobile phone: 002-010-1056-1818. E-mail: noubyluxor@gmail.com</p> <p>5. Dr Abdalla Abdal-hay Ali, Assistant Prof. in Mechanical Engineering Dept., Materials Engineering and Biomaterials, South Valley University ,Qena, Egypt. Mobile phone: 002-010-1162-2820. E-mail: abdalla2013@gmail.com abda_55@jbnu.ac.kr</p>
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DECLARATION:

I hereby declare that all the information given above about me is true to the best of my knowledge. Date: June, 5, 2016.



(Abdel-Nasser Sharkawy)