


Curriculum Vitae

	Name: -WALEED KHALID HUSSEIN ALI					Chinese name:- 阿尼
	Educational: - MSc in Mechanical Engineering Design and Theory 2017, B.Sc. in production engineering and metallurgy 2010.					Major: - Mechanical engineering.
	Workplace:- 1- PhD student at southwest jiaotong university 2-Ministry of Higher Education and Scientific Research- university of technology / Energy and Renewable Energies Technology Center / Baghdad – Iraq.					Position: Assistant Lecturer.
General information's	<u>Gender</u>	<u>Birthday</u>	<u>Nationality</u>	<u>Religion</u>	<u>Social Status</u>	<u>Languages (3)</u>
	Male	1986/06/29	Iraqi	Muslim	Married	English , 中文, العربية
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<u>Certifications</u>	<ol style="list-style-type: none"> 1- Ministry of Planning Central Organization for Standardization and Quality Control Industrial Property Division (COSQC). 2- Computer center / university of technology website designer (front page). 3- Ministry of Higher Education and Scientific Research Iraq. 4- Global standard international computer certificate (IC³). 5- Institutional testing programs international English certificate (TOEFL). 6- University of technology /Iraq – Baghdad. 7- Southwest Jiaotong University / China- Chengdu (SWJTU). 8- Information & communication Technology center (ICTC). 9- Method of teaching and virtual library - Continuous Education Center (C.E.C). 10- University of kerbala. 11- Ministry of Youth and Sports. 					
<u>Patents</u>	Publish (3) , under reviewing (3)					
	<ol style="list-style-type: none"> 1.Patent No.: 4696 (Int. CI.: C02F1/441) Development of new mobile system to produce drinking water with high purity using nanotechnology and operated by several energy sources. 2.Patent No.:4690 (Int. CI.:B05B13/0431) Design and Manufacturing of Automatic Multipurpose Dip-Coating System. 3.Patent No.: 5479 (Int. CI.: F25B21/02) 					

	New Design and implementation of Electromechanical Air-Conditioning and Heating System Working by Renewable energy and Semiconductors Materials (NTECAR).
<u>Conferences</u>	<ol style="list-style-type: none"> 1. National Conference for Renewable Energies and there applications 2013. 2. Second Iraq oil and gas conference 2013. 3. The sixth conference of college of sciences – university of kerbala 2018. 4. Third International Conference on Sustainable Engineering Techniques (ICSET 2020) 3rd to 4th of May 2020. 5. Second International Scientific Conference of Al-Ayen University 2020.
<u>Seminars &workshop</u>	<ul style="list-style-type: none"> ❖ Four workshops and nine seminars. ❖ Joined the festival scientific sovereignty (5th, 6th and 7th).
<u>Scientific research</u>	<p>Publish (9) , under reviewing (2)</p> <ol style="list-style-type: none"> 1. (Study and analysis the scientific and economic feasibility of using a clean energy alternative to traditional energy sources). /National Conference for Renewable Energies and there applications 2013. 2. Estimation of solar collector orientation to maximize the Output energy of solar system under different climate Conditions in Baghdad. / (Engineering and Development journal of Al-mustansiriya College of engineering). 3. The Co-fermentation of Organic Substrates: A Review Performance of Biogas Production under Different Salt Content. /IOP Conf. Series: Journal of Physics: Conf. Series 1032 (2018) 012041. 4. Performance of Oil on Bio-Methane Creation under Anaerobic Co-Fermentation Condition. Review / IOP Conf. Series: Materials Science and Engineering 881 (2020) 012189 doi:10.1088/1757-899X/881/1/012189. 5. Purity Water Production Technique with Multi Power Resources in the 2nd International Scientific Conference of Al-Ayen University. 6. Impact of Asphalt Layer and Glass Thickness on the Thermal Storage of PavementInternational Conference on Communication and Information Technology, ICICT 2021 Conference paper DOI: 10.1109/ICICT52195.2021.9568449 7. Enhancing the fuel saving and emissions reduction of light-duty vehicle by a new design of air conditioning worked by solar energy.Case Studies in Thermal Engineering.2022-02 Journal article.DOI: 10.1016/j.csite.2022.101798 8. DIMINUTION OF AIR POLLUTION FROM NOX AND SMOKE/SOOT EMITTED FROM ALCOHOLS/DIESEL BLENDS IN DIESEL ENGINE AND INFLUENCE OF THE EXHAUST GAS RECIRCULATION (EGR). Journal of Environmental Engineering and Landscape Management.2023-04-26 Journal article.DOI: 10.3846/jeelm.2023.17410 9. A novel experimental design for free energy from the heat-gaining panel using multi-thermoelectric generators (TEGs) panel.Case Studies in Thermal Engineering.2023-10 Journal article DOI: 10.1016/j.csite.2023.103431
<u>Awards</u>	<ol style="list-style-type: none"> 1-One Award in the festival scientific sovereignty (sixth) Baghdad Iraq 2012. 2- Tow Award in the festival scientific sovereignty (Seventh) Baghdad Iraq 2013.

	<p>3- The first place in the Chess player Championship 2010.</p> <p>4- One Award in the festival creativity of youth 2012.</p> <p>5-The golden medal and first position awarded from American university of Iraq hold on Industrial Research and Development Authority, Ministry of Industry and Minerals , Iraq 2018</p> <p>6-The golden medal and first position awarded from American university of Iraq hold on the tenth international conference and exhibition for patents and industrial design during (6-7) February 2019.</p> <p>7- The first position and golden medal awarded from Ministry of Higher Education and Scientific Research of Iraq in scientific day competition as the best innovation in Iraq in the field of all engineering majors on 23-january 2020.</p> <p>8- Others awards for several reasons:</p> <p style="margin-left: 40px;">A- Minister of Higher Education and Scientific Research, (4) Recognition Letters.</p> <p style="margin-left: 40px;">B- President of the University of Technology, (7) Recognition Letters.</p> <p style="margin-left: 40px;">C- Head of Departments, (3) Recognition Letters.</p>
<p><u>Projects</u></p>	<p>Publish (3) , under reviewing (2)</p> <ol style="list-style-type: none"> 1- Development the double acting cylinder of hydraulic power system to be a laboratory Device. 2- Using the renewable energies and smart equipment to support the E-government. 3- Design and assembly water purification system for remote regions worked by (3) energy sources. 4- Using solar concentrators to improve the efficiency of the solar panel. 5- Development the gold checking devices by using electrical conductivity. 6- Design Air conditioning and lighting system for checkpoints worked by solar energy. 7- Design and manufacture a proto-type of Compound Parabolic Concentrators with Template. 8- Design and manufacture a specialized laboratory system for measuring the efficiency of solar concentrators. 9- Design and manufacture parabolic solar concentrator by using flexible mirrors. 10- Design and Manufacture a Multipurpose Dip-Coating System laboratory device. 11- New Design and Implementation of Electromechanical Air Conditioning and Heating System Working by Renewable energy and Semiconductors Materials (NTECAR). 12- Redesign and development a special knife for treatment the cancer cells. 13- -thermoelectric generators (TEGs) panel. 14- Refrigerator with new technologies.
<p><u>Membership</u></p>	<ul style="list-style-type: none"> • Iraqi Engineers Union. • Iraqi society of nanotechnology. • Iraqi forum of inventors.