


السيرة الذاتية (الاستاذ المساعد الدكتور المهندس محمد حمزة عبد السادة الهاشمي)
Curriculum vitae (Assistant prof. Dr. Mohammed Hamza Abdulsada Alhashimi)

	المعلومات الشخصية:	
	الاسم	محمد حمزة عبد السادة الهاشمي
	الجنسية / الديانة	عراقي/مسلم
	مكان /تاريخ التولد	العراق/21-12-1971
	اللغات	العربية والانكليزية

الدرجات العلمية الحاصل عليها

- دكتوراه في الهندسة الميكانيكية-اختصاص طاقة(محركات توربينية) 2012 جامعة كاردف/كاردف/ويلز/بريطانيا/ عنوان الأطروحة " دراسة خصائص رجوع اللهب والأنطفاء في حارق المحرك التوربيني".
- ماجستير في الهندسة الميكانيكية-اختصاص طاقة(ديناميكا الغازات) 1996 جامعة النهريين/بغداد /العراق/المعدل النهائي(75.33%) عنوان الأطروحة" أداء خارج التصميم لمرحلة واحدة في ضاغط محوري الجريان".
- بكالوريوس علوم في الهندسة الميكانيكية ، 1993 جامعة بابل/بابل /العراق تسلسل 3 من 62 بمعدل نهائي(76.11%). عنوان مشروع التخرج"قياس درجة حرارة السماء الفعلية للإشعاع في مدينة الحلة"

الخبرة التدريسية

1. 2012-لحد الان: مدرس في جامعة القادسية/ كلية الهندسة/قسم الهندسة الميكانيكية لمواد الرياضيات وميكانيك الموائع.
2. 2012-2008: تدريس مادة ANSY في جامعة كاردف –كلية الهندسة والاشراف على مختبر (Impact of the Water Jet)
3. 2007-2003: مدرس في جامعة القادسية/ كلية الهندسة/قسم الهندسة الميكانيكية لمواد الرياضيات وميكانيك الموائع.
4. 2003-2001:محاضر في جامعة سبها كلية العلوم قسم الرياضيات.
5. 2003-2001:محاضر في معهد المعلمين/قسم الرياضيات في سبها.
6. 2003-1997:مدرس في المعهد العالي للمهن الشاملة وأعداد المدربين سبها في قسم الهندسة الميكانيكية لمواد الرياضيات والديناميكا الحرارية وميكانيك الموائع ومحركات الاحتراق الداخلي والاشراف على العديد من مشاريع التخرج.

الخبرة العملية

1. 2003-لحد الان: العمل في المكتب الاستشاري جامعة القادسية كلية الهندسة في مختلف التصميم والاشراف على مجموعة من المشاريع: 1-مشروع أعداد تصاميم كلية الهندسة في جامعة القادسية 2-أعداد تصاميم مشروع مجاري السماوة الكبير 3-الاشراف على مشروع سجن بابل المركزي.
2. 2012-2008:العمل في جامعة كاردف في (Gas Turbine Research Center)
3. 2005-2003:العمل في الدائرة الهندسية في جامعة القادسية في الاشراف وتنفيذ مجموعة كبيرة من المشاريع.
4. **المناصب التي شغلتها.**

- 2007-2003 : معاون عميد للشؤون العلمية في كلية الهندسة جامعة القادسية
- 2017-2013:مدير قسم العلاقات الثقافية في جامعة القادسية
- 2019-2017 :مدير قسم شؤون الطلبة والتسجيل في جامعة القادسية

العنوان:	رقم الهاتف	البريد الإلكتروني
جامعة القاسية – كلية الهندسة	07809181781	mohammedabdulsada@gmail.com mohammed.abdulsada@qu.edu.iq

Curriculum vitae (Assistant prof. Dr. Mohammed Hamza Abdulsada Alhashimi)

الاستاذ المساعد الدكتور المهندس محمد حمزة عبد السادة بخيت الهاشمي

Occupation and Contact detailed

Occupation: Lecturer in Mechanical Engineering department at College of Engineering AL-Qadisiyah University

Address: Mechanical Engineering department, College of Engineering, AL-Qadisiyah University, AL-Diwaniyah, Iraq

Mobile Number: 07809181781

Email:mohammedabdulsada@gmail.com

Email:mohammed.abdulsada@qu.edu.iq



Degree Obtained

- Doctor of philosophy in Mechanical Engineering Power Engineering (Gas Turbine), 16 May 2012, Cardiff University, Cardiff, Wales, United Kingdom. Thesis title” **Flashback and Blowoff Characteristics of Gas Turbine Swirl Combustor**”
- Master in Mechanical Engineering, Power Engineering (Gas Turbine), 19 February 1996, AL-Nahrain University, Baghdad, Iraq, final average (75.33%). Dissertation title” **Off-Design Performance of an Axial Flow Compressor Stage**”
- Bachelor Degree in Mechanical Engineering, June 1993, University of Babylon, Hilla, Iraq, (3rd) out of (62) graduates, final average (76.11%). Graduation project title” **Measurement of Sky Temperature in Hilla City**”

Experiences

1. 2012- till now: Instructor at AL-Qadissiyah University college of Engineering and the Director of scholarship and cultural relationship at the main university.
2. 2009-2012: Instructor and Lab Demonstrator at Cardiff University/ School of Engineering /Mechanical Department/ Energy Institute Impact Water Jet Lab and teaching Fluent Tutorial.
3. 2008-2012: PhD student at Cardiff University/ College of Engineering /Mechanical Department/ Energy Institute. Work in Gas Turbine Research centre in Port Talbot, Wales, United Kingdom.
4. 2003-2008: Instructor and staff teaching members in college of Engineering at AL-Qadissiyah University.
5. 1997-2003: Instructor at Higher Institute for General professions and Training preparing in Libya.
6. 1996-1997: Instructor at AL-Qadissiyah University

Position held

2003-2008: Scientific Assistance Dean at the college of Engineering / University of Al-Qadissiyah

2013-2017: Director of scholarship and cultural relationship at University of Al-Qadissiyah.

2017-2019: Director of registration and students affair at University of Al-Qadissiyah.

Journal Papers:

- [1] Mohammed Abdulsada “Working Design Map of Alternative Fuel for High Swirl Burner” TEST Engineering & Management. Vol. 82 January- February 2020 p.p.14124-14132.
- [2] H JANNA, M ABDULSADA “The Effect of Confinement Shapes upon the Blowoff Limit on Tangential Swirl Burner” International Journal of Mechanical and Production Engineering Research and Development (IJMPERD),Vol. 9, No. 6, December 2019, p.p.1119-1128.
- [3] Mohammed Abdulsada “Operational gas turbine swirl combustors design map for pure methane and different outlet configurations” Periodicals of Engineering and Natural Sciences, Vol. 7, No. 4, December 2019, pp.1886-1891.
- [4] Mohammed Abdulsada,” Finite Element Analysis of Fins with Convection and Radiation Heat Transfer” Al-Qadisiyah Journal for Engineering Sciences, Vol. 8, No. 2, 2015.
- [5] Valera-Medina A., N. Syred , M. Abdulsada,”Flashback Analysis in Tangential Swirl Burners” Ingeniería Investigación y Tecnología. Vol. XII, Núm. 4, 2011, 487-497.
- [6] N. Syred , A. Giles, J. Lewis, M. Abdulsada, A. Valera Medina, R. Marsh, P.J. Bowen, A.J. Griffiths" Effect of inlet and outlet configurations on blow-off and flashback with premixed combustion for methane and a high hydrogen content fuel in a generic swirl burner" Applied Energy 116 (2014) 288–296
- [7] Mohammed Abdulsada, Nicholas Syred, Philip Bowen, Tim O’Doherty, Anthony Griffiths, Richard Marsh, Andrew Crayford ‘Effect of exhaust confinement and fuel type upon the blowoff limits and fuel switching ability of swirl combustorsApplied thermal Engineering , Applied Thermal Engineering 48 (2012) 426-435.
- [8] Nicholas Syred, Mohammed Abdulsada, Anthony Griffiths, Tim O’Doherty, and Philip Bowen, The effect of hydrogen containing fuel blends upon flashback in swirl burners, Applied Energy, Applied Energy 89 (2012) 106–110.
- [9] Nicholas Syred, Mohammed Abdulsada, Anthony Griffiths, Tim O’Doherty, and Philip Bowen, Reprint of The effect of hydrogen containing fuel blends upon flashback in swirl burners, Applied Energy, Applied Energy 53 (2013) 348–357.
- [10] Mohammed Abdulsada, Nicholas Syred, Anthony Griffiths, Phil Bowen, and Steve Morris Effect of Swirl Number and Fuel Type Upon the Combustion Limits in Swirl Combustors GT2011-45544 Proceedings of the ASME Turbo Expo 2011 VOLUME 2 PART A COMBUSTION, FUELS AND EMISSIONS presented at The ASME 2011 Turbo Expo June 6-10, 2011 Vancouver, British Columbia, Canada. PP.531-540
- [11] Mohammed Abdulsada “THE COMBINATION OF SWIRL COMBUSTORS WITH FURNACES” *International Journal of Innovation Sciences and Research* Vol.4, No, 6, pp.242-247, June- 2015 Department of Mechanical Engineering, College of Engineering, Al-Qadisiyah University, Iraq.
- [12] Mohammed Abdulsada “BURNER FLAME STABILISATION OF ALTERNATIVE FUELS USING NOZZLE CONSTRICTIONS” *International Journal of Current Research* Vol. 7, Issue, 06, pp. 16815-16827, June, 2015 Department of Mechanical Engineering, College of Engineering, Al-Qadisiyah University, Iraq **ISSN: 0975-833X.**
- [13] Mohammed Abdulsada “Design of the Basic Performance Characteristics Maps of an Axial Flow Turbine Stage” *Academic Research International* Vol. 6(3) pp.22-30 May 2015 Department of Mechanical Engineering, College of Engineering, Al-Qadisiyah University, Iraq ISSN: 2223-9944, eISSN: 2223-9553.

Conferences:

- [1] Mohammed Abdulsada, Nicholas Syred, Phillip Bowen, Antony Griffiths, Pure Hydrogen and Its Blends Advantages and Disadvantages as Fuel in the Gas Turbine Swirl Combustor, 50th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, Nashville, Tennessee 9-12 January 2012, **AIAA 2012 -1120421**.
- [2] Mohammed Abdulsada, Nicholas Syred, Philip Bowen, Tim O'Doherty, and Anthony Griffiths, Effect of Swirl Number and Fuel Type upon the Blowoff Limits in Unconfined and Confined Swirl Combustors, PRO-TEM, TATA Conference Meeting, Newcastle, 25th-26th October, 2011.
- [3] Mohammed Abdulsada, Nicholas Syred, Steve Morris and Phillip Bowen, Effect of Swirl Number and Fuel Type upon the Blow off Limits in Swirl Combustors. Conference paper accepted in The Fifth European Combustion Meeting is to be held in Cardiff University, Cardiff, UK 28th June - 1st July 2011.
- [4] Mohammed Abdulsada, Nicholas Syred, Antony Griffiths, Phillip Bowen and Steve Morris, Effect of Swirl Number and Fuel Type upon the Combustion Limits in Swirl Combustors, ASME Turbo-Expo conference in Canada, Vancouver 6-10 June 2011, **GT2011-45544**.
- [5] Mohammed Abdulsada, Nicholas Syred, Antony Griffiths, Phillip Bowen, Effect of Swirl Number and Fuel Type upon the Flashback in Swirl Combustors, 49th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition 4th -7th January 2010, Orlando, Florida, **AIAA 2011- 889442**.
- [6] Nicholas Syred, Mohammed Abdulsada, Anthony Griffiths, Tim O'Doherty, and Philip Bowen, The effect of hydrogen containing fuel blends upon flashback in swirl burners, PRO-TEM, TATA Conference Meeting, Newcastle, 3rd November, 2010.
- [7] Agustin Valera-Medina, Mohammed Abdulsada, Nicholas Syred and Anthony Griffiths, Studies of Large Coherent Structures and their Effects on Swirl Combustion, 48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition 4th -7th January 2010, Orlando, Florida, **AIAA 2010-1168**.
- [8] A. Valera-Medina, M. Abdulsada, N. Shelil, A. Griffiths & N. Syred, Flashback Analysis In Swirl Burners Using Passive Nozzle Constrictions And Different Fuels, 16th International IFRF Members' Conference 8th-10th Jun, 2009. Boston, USA.
- [9] A. Valera-Medina, M. Abdulsada, A. Griffiths & N. Syred, Flashback Avoidance Analysis using Geometrical Constrictions in a Tangential Swirl Burner 9 - 10 March 2009 British – French Flame Days 2009.
- [10] Mohammed Abdulsada, Preliminary design charts of an axial flow compressor stage Fifth Magribain Conference of Mechanical Engineering 5-7 February 2001 Brack-Libya.
- [11] Mohammed Abdulsada, Finite element Analysis of fins with convection and radiation Fifth Conference of AL-Qadisiyah University 21-22 January 2005 AL-Qadisiyah-Iraq.
- [12] Mohammed Abdulsada Current Research in Combustion: A Forum For Research Students and Early Career Researchers IOP Combustion Physics Group "**Flashback Avoidance Analysis using Geometrical Constrictions in a Tangential Swirl Burner**" Loughborough University, Leicestershire, UK Tue, 22 Sep 2009.
- [13] Mohammed Abdulsada 1st Iraqi conference for Science and engineering for the PhD Iraqi students in The UK Iraqi Cultural Attaché "**Effect of Swirl Number and Fuel Type upon the Combustion Limits in Gas Turbine Swirl Combustors**" University of London UCL, London, UK 1st – 2nd October 2011.

Prizes and Awards

Second Best Poster Award

Event Title Current Research in Combustion: A Forum For Research Students and Early Career Researchers
Organised by IOP Combustion Physics Group
Title of poster **Flashback Avoidance Analysis using Geometrical Constrictions in a Tangential Swirl Burner**
Place of Loughborough University, Leicestershire, UK
conference
Date of Tue, 22 Sep 2009
conference

Best Paper

Event Title 48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition
Organised by American Institute of Aeronautics and Astronautics
Title of paper **Studies of Large Coherent Structures and their Effects on the Swirl Combustion**
Place of Orlando, Florida, USA
conference
Date of 4 - 7 January 2010
conference
Paper No. AIAA 2010-1168

Best Paper and Presentation prize

Event Title 1st Iraqi conference for Science and engineering for the PhD Iraqi students in The UK
Organised by Iraqi Cultural Attaché
Title of poster **Effect of Swirl Number and Fuel Type upon the Combustion Limits in Gas Turbine Swirl Combustors**
Place of University of London UCL, London, UK
conference
Date of 1st – 2nd October 2011
conference

العمل مع منظمات وجامعات عالمية:

- 1- العمل على موضوع الحاضنات التكنولوجية مع مؤسسة القانون التجاري وتطوير البرامج التابعة لوزارة التجارة الامريكية للعمل على تاسيس قانون الحاضنات التكنولوجية في العراق. (Commercial Law Development) Program 2013-2015.
- 2- العمل مع الاتحاد الاوربي كمنسق اداري لمشروع تطوير أقسام وكليات الاثار في العراق (WALADU) 2015-2019.
- 3- ممثل جامعة القادسية مع مركز الدراسات العراقي في جامعة فريدريك ألكسندر إيرلانغن نورنبرغ (Friedrich-Alexander-Universität Erlangen-Nürnberg) في 20/05/2016 حسب مذكرة التعاون الموقعة من قبل السيد رئيس جامعة القادسية ومدير المركز