CURRICULUM VITAE

Personal Data

Name	Ali Mahmoud Ali Attia		
Birth Day:	10-04-1976		
Place of birth	Hehia - Sharkia		
Nationality:	Egyptian		
ID	27604101303815		
Passport No.	A13076094 (valid until 16.09.2021)		
Scientific degree	PhD in Engineering science		
Affiliation	Assistant Professor of Combustion and Heat Engines		
Current address:	Mechanical Engineering Department,		
	Benha Faculty of Engineering, Benha University,		
	Z.C. 13512-Benha, Qalubia, Egypt		
Marital status:	Married and have three girls; Alaa (B.D. 23-07-2001),		
	Aaia (B.D. 02-06-2004) and Arwa (B.D. 15-03-2011)		
	And boy; Ahmed (B.D. 1-10-2016)		
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Scopus ID:	22978120300; No. of Documents: 9; Total Citations: 133; h index: 4		
Main Researches:	Bio-fuel, Combustion, Heat Engine, Thermal Management, wind-turbine control		
Main Consultation:	Environment, Energy Systems, Firefighting		
Memberships:	Egyptian Syndicate of Engineers since 1999, ASME-Membership# 100735582 Since		
	2015, Energy & Electricity Specialized Scientific Council (Academy of Scientific		
	Research & Technology <u>http://www.asrt.sci.eg/</u>) since January 2016		

Academic Qualification

- 1- PhD in Engineering Science in specialty of Heat Engine No. 05.04.02 entitled of "Improving the environmental and economic performance of diesel engine by changing the structure of water-in-fuel emulsion", Vladimir State University, Vladimir, Russia, October 2012.
- 2- M Sc. of Engineering Technology in Mechanical Engineering Technology entitled of "Burning Velocity of Combustible Mixtures in a Cylindrical Combustion Bomb", Benha Faculty of Engineering, Benha University, Benha, Egypt, February 2006.
- 3- B.Sc. in Mechanical Power Engineering with general grade of very good (82.2%), Benha Faculty of Engineering, Benha University, Benha, Egypt, June 1999.

Positions:

- 1- Lecturer at Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Benha, Egypt (Full time from December 2012 till now).
- 2- Lecturer at Faculty of Engineering, Arab Academy for Science, Technology and Maritime Transport (AASTMT)- Heliopolis Branch (part time since September 2015 till July 2016).
- 3- Senior Firefighting Engineer at EGEC Engineering House of Expertise, Nasr City, Cairo, Egypt (part time since August 2014 till now).
- 4- Lecturer at Faculty of Engineering, Nahda University in Benisuef (part time from February 2013 to January 2014).
- 5- Teaching Assistant at Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Benha, Egypt (from July 2006 to December 2012).
- 6- Senior Design Engineer at Roshdy Metal Industry (RMI) (Egypt- Zagazig Cairo Desert Road) (part time from July 2006 to October 2008).
- 7- Demonstrator at Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Benha, Egypt (from April 2000 to June 2006).
- 8- Design Office Engineer at Roshdy Metal Industry (RMI) (Egypt- Zagazig Cairo Desert Road) (part time from October 1999 to March 2004)

Journals and Conferences Reviewer:

1- ASME International Mechanical Engineering Congress and Exposition, November 14-20, 2014, Montreal, Canada.

Languages:

- 1- Arabic (Native Language),
- 2- English (written and spoken Good fluency level), and
- 3- Russian (written and spoken Good fluency level).

Computer Skills:

- 1- AutoCad (2d & 3D); Professional,
- 2- Microsoft Office (Word, Excel, Power Point); Professional
- 3- Engineering Equation Solver (EES); Professional.

Workshops & Conferences Presentations:

- 1. Analysis of Egyptian Energy Roadmap published on July 2013, Presented at Egyptian Atomic Agency as a part of Electricity & Energy Special Council Public Workshop, August 2016.
- 2. Presentation Regarding Case Study for Benha University Research Projects; Presented at Shubra Faculty of Engineering, January 2016.
- 3. ASME International Mechanical Engineering Congress and Exposition, November 14-20, 2014, Montreal, Canada (two Papers IMECE2014-39988 & IMECE2014-39991)
- 4. Review and Supporting the Competitive Scientific Projects Funded by Benha University; General Workshop at Benha University, October 2014.
- 5. Second Ain Shams University International Conference on Environmental Engineering ASCEE2, Cairo, Egypt 2007.

Awards and Honors:

- 1- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; Third Round January 2016.
- 2- Honor and Appreciation from Benha University regarding the Outstanding Scientific Research Performance and International Publishing; First Round July 2015.
- 3- Honor and Appreciation from Qalubia Directorate of Education Qalubia Governorate Regarding activities during the Qaliubiya Exhibition in Science and Technology in academic year 2016-2017.
- 4- Honor and Appreciation from Qalubia Directorate of Education Qalubia Governorate Regarding activities during the Qaliubiya Exhibition in Science and Technology in academic year 2015-2016.
- 5- Honor and Appreciation from Benha Faculty of Engineering regarding the Activities in finalizing Benha Faculty Postgraduate ByLaw Assigned on 12/12/2013.

Academic Experience:

- I. Lecturer of Combustion, Heat engine, and Environmental studies since December 2012. Teach both undergraduate and postgraduate courses as:
 - 1. Measuring Instruments and Measurements for postgraduate students
 - 2. Advanced Engineering Thermodynamics for postgraduate students
 - 3. Combustion Generated Pollution for postgraduate students
 - 4. Thermal Plant Engineering (at Faculty of Engineering, AASTMT Heliopolis Branch)

- 5. Thermodynamics II for undergraduate students
- 6. Internal Combustion Engines for undergraduate students
- 7. Environment and Pollution for undergraduate students
- 8. Combustion Theory for undergraduate students
- 9. Technical Report Writing (at Nahda University in Benisuef
- 10. Mechanics of Engineering Dynamics (at Nahda University in Benisuef)
- 11. Principles of Mechanical Power Engineering (at Nahda University in Benisuef)
- 12. Engineering Drawing Using AutoCad 2013 (at Nahda University in Benisuef)
- II. Teaching Assistant experience at the Mechanical Engineering Department, Benha Faculty of Engineering, Benha University, Egypt as Demonstrator from October 2000 to June 2006 then as Lecturer Assistant from June 2006 to August 2008. Teaching:
 - 1. Theory of combustion technology
 - 2. Computer aided drawing (AutoCAD)
 - 3. Environment and pollution technology
 - 4. Power Station technology
 - 5. Internal combustion engine
 - 6. Thermodynamics (I)
 - 7. Engineering drawing
 - 8. Measurements and Instrumentations
 - 9. Gas Dynamics
- III. Supervising graduation projects as a lecturer since academic year 2012/2013; including:
 - 1. Biofuel Production from Castor Oil (4th Year 2016/2017)
 - 2. Biofuel Production from Jatropha Seeds (4th Year 2015/2016).
 - 3. Waste cooking oil as bio-fuel (5th year 2013/2014)
 - 4. Municipal waste incineration (5th year 2012/2013)
 - 5. Optimization of Conventional Flat Plate Solar Water Heater (3rd year 2012/2013)
- IV. Sharing and helping in finalizing graduation projects as teaching assistant; including:
 - 1. Prepare a single cylinder CI engine to study its performance, measure in-cylinder pressure, and measure its generated emissions (2007).
 - 2. Prepare and instruments setting for single cylinder SI Engine to enable study of the engine performance with combustion pressure measurements (2006)
 - 3. Setting the GM 6-Cylinder gasoline engine with suitable instrumentations to study effects of LPG and kerosene additives on its performances (2005)
 - 4. Assemble gas turbine combustor to use high-pressure air at elevated temperature (2005).
 - 5. Modify the burners' support for the fluidized bed to enable the study of the heat loss and measure the heat flux at different sections (2003-2004)
 - 6. Design, setting measuring instruments, and operation of the fluidized bed furnace using wood and LPG fuels (2000-2002)

Major Consultancy & Industrial Experiences:

- 1. Since August 2014 till now, consultant services as Senior Firefighting Engineer at EGEC-Engineering House of Expertise designing and analyzing bids of firefighting systems regarding the following projects:
 - Environmental and Social Impact Assessment (ESIA) study (Technical Proposal) for Zafarana
 9.46 km² PV power plant request by New and Renewable Energy Agency (NREA), Cairo, Egypt (October 2015).
 - b. Egypt Foods New Factory at 6th October, Egypt (November 2015 to November 2016)

- c. Pfizer factory at Helipolis, Cairo, Egypt; (i) October 2015 November 2015 (Assessing the existing firefighting system design firefighting system for new warehouses) and (ii) April 2016 July 2016 (design firefighting system for the new distribution building).
- d. Chevron Egypt Lubricants at 6th October, Egypt (August 2015 October 2015).
- e. Givaudan Egypt SAE at 6th October, Egypt (November 2014 August 2015)
- f. Different Distribution Centers (DCs) for International Co. for Agro Industrial Projects (Beyti) at Qatamia, Ismailia, Sharkia, Egypt (June 2015 November 2016).
- g. Singapore Embassy at Cairo, Egypt (October 2014 August 2015).
- h. SODIC Westown Courtyard (Block 46), 6th October, Egypt (January 2015 August 2015).
- i. CNG Bus Parking Facility, Doha, Qatar (May 2015 September 2015).
- j. Foxhills Residential Buildings [D16-19, D23 & N27] Lusail, Doha, Qatar (August 2014 October 2015).
- k. Administration and Explosive Stores (Ministry of Interior MOI) Doha, Qatar (September 2014 till now).
- 1. Horizon Properties; H-Compound, El-Kheesa, Qatar (September 2014 September 2015).
- m. The Administrative Building for Lusail International Circuit, Doha, Qatar (April 2015- July 2015).
- n. ALJHE, Forklift, and LDC Compound, Abha, KSA (December 2014 September 2015).
- o. New Private Aviation Terminal at King Khalid International Airport (New Terminal, Utilities, and different Hangars) KSA (January 2016 July 2016)
- p. Dammam and Jeddah Regional Technical Institutes, KSA (April 2016 July 2016)
- 2. Since March 2013 till now, consultant services as Active Member within the University teamwork (University Community Service and Environment Development Centre) to perform the Environmental Assessments for different projects, industries, and commercial units.
- 3. Since December 2012 till now, consultant services as Mechanical Power and Environment Expert in the Workshops, Labs & Consults Unit at Benha Faculty of Engineering, Benha University performing the following reports and consultant services:
 - a. January 2017, Firefighting system Design for new Sport Educational Faculty, Benha University
 - b. November 2016, Firefighting system Design for new Pharmacy and Dental Faculties, Benha University.
 - c. January 2016 October 2016 supervising the installation of electromechanical systems for Benha Club Swimming Pool.
 - d. September 2016 Review the electromechanical systems for 3 water plants at Benha and El-Kanater El-Khairiya with capacity of 90 l/s.
 - e. April 2016, review the comments regarding the firefighting systems at Faculty of Applied Arts at Benha.
 - f. January 2014 complete the Environmental Assessment Study related to the Hazard Medical Waste incineration plant at Arab El-Olikat (El-Khanka).
 - g. Estimation the monthly fuel quantity required for different companies and factories (2013 till now).
- 4. August 2007 Design and drawing preparation for Foam Press for El-Fateh Steel Company under supervision of Prof. Mostafa Rostom.
- 5. June 2007, Design and drawing preparation of high efficiency cyclone separator for El-Fateh Steel Company; to remove sand behind cutting machine.
- 6. August 2006 reverse engineering drawing to Concrete Mixer inlet Hopper due to Arab Contractors Company under supervision of Prof. Mostafa Rostom.

- 7. From January 2004 to February 2005, design a proposal for melting furnace for technical schools and medium foundation application for the ministry of environment affairs, under supervision of Prof. Hany A. Moneib.
- 8. From March 2004 to February 2005, design the textile dryers for El-Choubagy factory for both flat printing machine and rotary printing machine.
- 9. From October 1999 to April 2008, Design office engineer in Roshdy Metal Industry (RMI) (Egypt-Zagazig Cairo Desert Road):
 - a. Design and manufacturing supervision of Mechanical Vibrators with centrifugal force of 30 ton, 50 ton, 75 ton, 100 ton, and 150 ton. New direct clamping system suitable for the designed vibrators with clamp force slightly greater than the centrifugal force.
 - b. Design the Support for piling equipment for El-Salam Canal project.
 - c. Design and manufacturing supervision of jacking station and tunnel boring machine for pipe diameter from 600 up to 2500 mm.
 - d. Design and manufacturing supervision of separation unit to recover water for pipe-boring machine with capacity from 200 to 400 m³/hr, using cyclone, screen, and settling chamber.
 - e. Design a new suspension system to reduce vibration translated to telescopic crane.

Research Projects as PI:

- 1. On November awarded grant from STDF (Capacity Building Grant) to establish "Advanced Testing Lab for Environment and Bio-Fuel" at Benha Faculty of Engineering of 5 million EGP budget.
- 2. On July 2014 Awarded a financial grant from Benha University to complete a research project entitle of "The use of biofuel as fuel alternative in different combustion devices to solve the energy problem in Egypt and reduce the environmental pollution" of 100 thousand EGP budget.

Research Supervising:

Supervising MSc and PhD studies since December 2012: generally related to thermal engineering science and in particular to Combustion and Heat Engines; including the following candidates:

- 1. Mohamed El-Taher (Control) to control small wind turbine.
 - a. Title: Design of a pitch angle control system for a horizontal axis small wind turbine.
 - b. Thesis defended on September 29, 2016.
 - c. Supervision committee: Prof. Hesham M. El-Batsh & Prof. Ahmed Elbetar, Dr. Ali M.A. Attia
 - d. Examination Committee: Prof. Farid Tolba, Prof. Ahmed El-Assal, Prof. Hesham M. El-Batsh & Prof. Ahmed Elbetar.
- 2. Saeed Anwar (Fluid Dynamics) to investigate compressor aerodynamics; Corner stall:
 - a. Title: Experimental and Numerical Investigation of Compressor Cascade Aerodynamics.
 - b. Thesis defended on December 9, 2015.
 - c. Supervision committee: Prof. Hesham M. El-Batsh & Dr. Ali M.A. Attia
 - d. Examination Committee: Prof. Ahmed Fyez, Prof. Taher Sabry, Prof. Hesham M. El-Batsh.
- 3. Karem Al-Sayed (Heat Transfer) to investigate thermal management of data centers:
 - a. Title: Experimental investigation of heat transfer and fluid flow in data centers of high power density.
 - b. Thesis defended on November 14, 2015.
 - c. Supervision committee: Prof. Sameh Nada, Dr. Ali M.A. Attia, and Dr. Walid Alshaer
 - d. Examination Committee: Prof. Mohamed Toeama, Prof. Ali Kamel, Prof. Sameh Nada.

- 4. Ahmad E.I. El-Seesy (Heat Engines) to investigate the effect Nano-additives to biodiesel-diesel blending fuel on diesel engine performance:
 - a. Title: Experimental Investigation for a Diesel Engine Performance Fueled by Biodiesel-Diesel Mixture with Additive of Nanoparticles.
 - b. Thesis defended on January 19, 2015.
 - c. Supervision committee: Prof. Hesham M. El-Batsh & Dr. Ali M.A. Attia
 - d. Examination Committee: Prof. Hendawy Salem, Prof. Mahmoud Abdel-Rashid, Prof. Hesham M. El-Batsh.
- 5. Radwan M.A. El-Zohary (Combustion) to investigate the flame structure of premixed prevaporized bio-diesel fuel:
 - a. Title: Investigation of Combustion Characteristics for Pre-Vaporized Premixed Biofuel-Jet Mixtures.
 - b. Thesis defended on September 9, 2014.
 - c. Supervision committee: Prof. Hesham M. El-Batsh & Dr. Ali M.A. Attia
 - d. Examination Committee: Prof. Ahmad S. Huzayyin, Prof. Hany A. Moneib, Prof. Hesham M. El-Batsh.

Research Areas of Interest:

- 1. Burning velocity & Flame characteristics,
- 2. Gas turbine combustion & Emission reduction,
- 3. Performance and emission characteristics of internal combustion engines,
- 4. Engine combustion using alternative fuels (including biofuels and emulsified fuels),
- 5. Biofuel production (from different non-edible vegetable and waste cooking oils),
- 6. Nano-particles influence on flame behavior and engine performance,
- 7. Data center thermal management,
- 8. Compressor aerodynamics, and
- 9. Wind turbine control.

Main Published Papers:

- 1. Saeed A. El-Shahat, Hesham M. El-Batsh, Ali M.A. Attia, "Experimental and Numerical Investigation of Linear Compressor Cascade Aerodynamics" Under Preparation to be submitted to international Journal.
- Mohamed E. Salem, Hesham M. El-Batsh, Ahmed A. El-Betar, Ali M.A. Attia, "Application of Neural Network Fitting for Pitch Angle Control of Small Wind Turbines", Submitted for publication in the IEEE Transactions on Energy Conversion on December 2016 (TEC-01038-2016) [impact factor 2.596]
- 3. S.A. Nada, K. E. Elfeky, Ali M.A. Attia, W.G. Alshaer, "Experimental parametric study of servers cooling management in data centers buildings", Publishing online in Heat and Mass Transfer on 11 January 2017 [impact factor 1.044]
- 4. S.A. Nada, Ali M.A. Attia, K. E. Elfeky, "Experimental study of solving energy management and thermal heterogeneity problem of data center servers", Applied Thermal Engineering, Vol.109 PA, pp. 466-474, 2016. [impact factor 3.043]
- 5. S.A. Nada, K. E. Elfeky, Ali M.A. Attia, "Experimental investigations of air conditioning solutions in high power density data centers using a scaled physical model", International Journal of Refrigeration, Vol. 63, pp. 87-99, 2016. [impact factor 2.291]
- 6. Ali M.A. Attia, Ahmad E Hassaneen, "Influence of Diesel Fuel Blended with Biodiesel Produced from Waste Cooking Oil on Diesel Engine Performance", Fuel, Vol. 167, pp. 316-328, 2016. [impact factor 3.61]

- Shehatta, M. S., Attia, A. M A., Abdel Razek, S.M., "Corn and Soybean Biodiesel blends as Alternative Fuels for Diesel Engine at Different Injection Pressures", Fuel, Vol. 161, pp. 49-58, 2015. [impact factor 3.61]
- 8. S.A. Nada, K. E. Elfeky, Ali M.A. Attia, W.G. Alshaer, "Thermal Management of Electronic Servers under Different Power Conditions", International Journal of Emerging Trends in Electrical and Electronics (IJETEE), Vol. 11(4), 2015.
- Saeed A. El-Shahat, Hesham M. El-Batsh, Ali M.A. Attia, "Experimental and Numerical Investigation for the Aerodynamics of a Linear Compressor Cascade", Aviation Engineering Innovation Conference – AEIC, March 21-22, 2015, Luxor, Egypt.
- 10.Attia, Ali M.A., Radwan M. El-Zoheiry, Hesham M. El-Batsh, Mohamed S. Shehata, "Combustion Characteristics of Jojoba Methyl ester as an Alternative Fuel for Gas Turbine", ASME International Mechanical Engineering Congress and Exposition, November 14-20, 2014, Montreal, Canada (Paper (IMECE2014-39991)
- 11.Attia, Ali M.A., Ahamd I. El-Seesy, Hesham M. El-Batsh, Mohamed S. Shehata, "Effects of Alumina Nanoparticles Additives into Jojoba Methyl Ester-Diesel Mixture on Diesel Engine Performance", ASME International Mechanical Engineering Congress and Exposition, November 14-20, 2014, Montreal, Canada (Paper (IMECE2014-39988)
- 12. Attia, A.M.A., Kulchitskiy A.R., "Influence of the structure of water-in-fuel emulsion on diesel engine performance", Fuel, Vol. 116, pp. 703–708, 2014. [impact factor 3.61]
- 13.Kulchitskiy A.R., Attia A.M.A., Gotz A.N, "Improving environmental performance of diesel engine using water-fuel emulsions", Fundamental Research, № 10, p. 1419-1422, 2013 (In Russian).
- 14.Attia A.M.A., Kulchitsky A.R., "The effect of composition and structure of emulsified fuel on the composition of particulate matters" Bulletin of Volgorad Technical University series Process of Energy Conversion and Power Plants, Issue 5, № 12, pp. 10-13, 2013 (In Russian).
- 15.Attia A.M.A., Kulchitsky A.R., "Influence of Water/Fuel Emulsion Structure on Engine Fuel Efficiency and Environmental Performance", Dvigatelestroyeniye, № 3, P. 16-20, 2012 (UDC 621.43.057.3) (In Russian)
- 16.Attia A.M.A., Kulchitsky A.R., "The Structure Control of Water-in-Fuel Emulsion", Research papers of Lithuanian University of Agriculture, Vol. 46, No. 2-3, PP. 112-126, 2012. (ISBN 1392-1134) (In Russian).
- 17. Attia A.M.A., Kulchitsky A.R., "The Effect of Water Introduction into Diesel Fuel on the Propensity for Sooting", Scientific journal of Modern Problems of Science and Education, No. 4, 2012. (ISBN 2070-7428) (In Russian).
- 18.Attia A.M.A., "Features of the preparation of water-fuel emulsion based on light-fuels", Fundamental Research, №8, p. 706-709, 2011 (UDC 621.436: 662.758) (In Russian).
- 19.Kulchitsky A.R., Golev B.Y., Attia A.M.A., "Water Fuel Emulsions for Diesel Engines", Mir transporta, No. 3, P. 50-55, 2011 (UDC 621.436: 662.758) (In Russian).
- 20.Kulchitsky A.R., Golev B.Y., Attia A.M.A., "Problems of the use of alternative fuels in ICE", Research papers of Lithuanian University of Agriculture, Vol. 42, No. 2-3, PP. 127-140, 2010. (ISBN 1392-1134) (In Russian).
- 21.Huzayyian, A. S., Moneib, H. A., Shehatta, M. S., Attia, A. M A., "Laminar Burning Velocity and Explosion Index for LPG-air and Propane-Air Mixtures", Fuel, Volume 87, Issue 1, January 2008, Pages 39-57. [impact factor 3.52]
- 22.Huzayyian, A. S., Moneib, H. A., Shehatta, M. S., **Attia, A. M A.**, "Laminar Burning Velocity and Explosion Index for LPG-air and Propane-Air Mixtures", Second Ain Shams University International Conference on Environmental Engineering ASCEE2, Cairo, Egypt 2007.

<u>Referees</u>

Name	Position	Address
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Hany Ahmed Moneib	Emeritus Professor	Professor of combustion and Heat Engine, El-Mattaria Faculty of Engineering, Helwan University, Cairo, Egypt. Tel: +201222196427 & Email: <u>h_moneib@yahoo.com</u>
Alexey R. Kulchitskiy	Habil. Dr. Mech. Eng.	Professor of Heat Engine, Heat Engine and Power Station Department, Faculty of Auto-transport, Vladimir State University, Vladimir, Russia. Tel: +79056124354 & Email: <u>ark6975@mail.ru</u>
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Mostafa Rostom	Associate Professor	Head of Mechanical Engineering Department, College of Engineering & Technology, Arab Academy for Science, Technology and Maritime Transport, Cairo Branch, Egypt. Tel.: +2 0121008346 & Email: <u>mrostom1@yahoo.com</u>