

Curriculum Vitae Name:

Professor Dr. Ghassan Adnan Hamid Al-Kindi

Date of Birth:

1st Nov, 1963.

Nationality:

Iraqi



Current Academic Title:

Professor of Mechanical/Manufacturing Engineering

Current position:

- Pro Vice Chancellor for Research & Innovation (Sohar University, Oman)
- Leader of tIntaj Suhar which include two governmental funded projects under Tanfeedh programme (awarded November 2017) namely, *Pilot plant for the design and manufacturing of dies and moulds* which is funded by 2.55 Million OMR and the *Advanced Manufacturing Research Centre – Oman AMRC-Oman* which is funded by 2.5 Million OMR.
- Professor of Mechanical/Manufacturing Engineering (Full Professor) – Sohar University – joined Sohar University on the 29/9/2007.

Qualifications:

- B.Sc. in Mechanical-Production Engineering (1985, University of Technology, Baghdad, Iraq).
- Ph.D. in Mechanical Engineering (1990, the University of Leeds – UK)

Leadership positions (most recent first):

I have gained 17 years of experience on leadership positions in my current and previous positions at the levels of Director General, Deputy Director General, Acting Dean, and Director. These include the following:

- Director of Research and Industry Collaboration (Sohar University, Oman) since 1/9/2014
- Acting Dean (Mechanical Engineering Department – University of Technology – Baghdad – Iraq from March 2007 till Sept 2007).
- Deputy Dean for postgraduate studies (Mechanical Engineering Department – University of Technology – Baghdad – Iraq from Dec 2005 till Sept 2007).

- Director of Postgraduate studies (Mechanical Engineering Department – University of Technology – Baghdad – Iraq from Sep 2003 till Dec 2005).
- Head of the Mechanical Engineering Group (Head of Department) – Mechanical Engineering, Department, University of Technology, Baghdad, Iraq.
- Deputy Director-General for technical affairs at Al-Nida’a state establishment for dies and moulds manufacturing (Number of employees 1700) – Ministry of Industry – Iraq, from April 2000 till Sept 2003.
- Director of Research and Development at Al-Nida’a state establishment for Dies and Moulds manufacturing from Sept 1995 till April 2000.
- Director General of Engineering Equipment Design Centre – ministry of industry – Iraq, Nov 1994 till Sept 1995.
- Director of Manufacturing Process Design Centre – Ministry of Industry – Iraq, January 1992 till Nov 1994.

Academic Titles:

- Professor (Full) – Awarded 1st September 2015 (Sohar University).
- Head of Researchers (an academic title equivalent to full Professor awarded by the Iraqi Industrial Sector / Iraqi Government) – April 2000.
- Assistant/Associate Professor (Awarded by the University of Technology – Baghdad – Iraq) – Awarded 1.9.2003.
- Honorary Research Associate to the Robotics and Mechatronics Research Group / Mechanical Engg. Dept. – Monash University – Melbourne Australia from 1-12-2006 till 31-12-2008.
- Adjunct Fellow (Awarded by University of Queensland) 2010 – 2012.

Languages and Communication skills

- Languages: English (fluent), Arabic (fluent) and Russian (speaking only average).
- High ability to teach in both English and Arabic Languages.
- High skills in computing and program developing activities using many programming languages and engineering packages (e.g. Matlab, Solidworks, Creo, AutoCAD, SurfCAM, Mastercam, etc.)

Academic and research experience:

- 30 years of undergraduate and postgraduate academic teaching and academic research at the University of Technology (Iraq) (1993-2007), University of Baghdad (1993–2007), and Sohar University 2007–2023 (ongoing).
- Thesis supervision of 41 postgraduates (11 graduated as Ph.D. and 30 graduated as M.Sc. in related fields).
- Authored or jointly authored 60 refereed and published papers (32 Journal and 28 conference papers).

- 16 years of industrial experience in the areas of manufacturing engineering, especially in the fields of Automation, Robotics, CNC machining, and computerized inspection.
- Awarded the 1989 Joseph Whitworth prize, dedicated by the Inst. of Mech. Engrs. – UK.
- Awarded one of six 2004 Endeavour Fellowship – given by DEST (Dept. of Education, Science and Training – Australian Government) and gained 6 months research experience at Monash University.
- Visiting academic to the University of Queensland-Australia and successfully conducted a joint research activity in the area of surveillance and safety, July-August 2010.
- Successfully executed several funded research projects and conducted more than 40 industrial oriented studies with the Iraqi industrial sector for the years 1993–2003 and accordingly have been awarded two governmental high distinction medals to honour scientific achievements in the area of manufacturing.
- Awarded the title of “Honorary Research Associate” given by Monash University – Melbourne, Australia to distinguish my research role at the Robotics and Mechatronics Research Group - Mechanical Engineering Department for three successive years (2006, 2007, and 2008).
- Awarded the title of Adjunct Fellow with Queensland University for the period 2010-2012.
- Participated in more than 25 scientific conferences and chaired several international conferences and also chaired several conference sessions.
- Supervised many final year (undergraduate) projects (more than 60).
- Head and member of several university committees and was assigned different faculty management roles such as, Head of Department, Deputy Dean, Acting Dean).
- Member of the Iraqi Engineering Association.
- Member of the IACSIT (International Association of Computer Science and Information Technology)
- Editorial Board Member of IJIP (The International Journal of Image Processing).
- Member of the Editorial Board of ICTACT Journal on Image and Video Processing (IJIVP).
- Editorial Board Member of JOACE (The Journal of Control and Automation).
- Reviewer for several journals and conferences.
- Former member of the Ministry of Health (NBG) Research and Ethics Committee.

Consultations:

Many consultations were given to the Iraqi industrial sector in my various related fields of specialty for the years 1991-2003. All of these were delivered successfully

- PI of a consultancy R&D project namely “Technological Performance Improvement of Mazoon Tanks Company” – Oman- Al-Rusayel 2014-2016 (24K Omani Rial project). The project has been delivered successfully
- PI of a consultancy R&D project namely “An investigation to improve the utilisation, functionality and scope of the Computerised Numerically Controlled (CNC) Machine at Sheeda Treasures Trading & Contracting” – Oman- AlMisfah-2014-2016 (26K Omani Rial). The project has been delivered successfully.

Grants and Funds

- Project Leader (Lead-PI) of successfully completed US\$400,000 research project awarded by the QNRF (Qatar National Research Fund). The project has started Sept. 2009 and was successfully completed in 2012. This project is a joint project with the College of North Atlantic – Qatar under the leadership of the Lead-PI – Sohar University.
- Project Leader (PI) of a grant of US\$6,450,000 awarded by the Ministry of Commerce and Industry (Oman) to establish “Advanced Manufacturing Research Centre AMRC” under Tanfeedh program. The project has started in November 2017 and has successfully delivered and completed in 2023.
- Project Leader (PI) of a grant of US\$6,580,000 awarded by the Ministry of Commerce and Industry (Oman) to establish “Pilot-scale Dies and Moulds Design and Manufacturing Plant” under Tanfeedh program. The project has started in November 2017 and has successfully delivered and completed in 2023.
- Project Co-PI of US\$500,000 on Grow Domes for Food Security project awarded by the British Government/British Council (started July 2017 and has successfully completed).
- Project Co-PI of US\$262,000 on wind turbines condition monitoring. The project is awarded by The Research Council- Oman in 2015 and has successfully completed in March 2018.
- Project leader of an awarded R&D grant of US\$62,000 by the Industrial Innovation Center (Oman). The project had started July 2013 and completed December 2014.
- Project leader of an awarded R&D grant of US\$67,000 by the Industrial Innovation Center (Oman). The project had started January 2014 and completed March 2015.
- Mentor of three TRC-FURAP projects (2013-2014) with total funds of US\$20,000. One of these projects has won TRC Oman National Award in the Energy and Industry sector. All delivered successfully.
- Mentor of one TRC-FURAP project (2014-2015) with funds of US\$6000). The project has won the TRC National Research Award in the area of Energy and Industry for the second time.
- Mentor of one TRC-FURAP project (2015-2016) with funds of US\$6000).
- Mentor of one TRC-FURAP project (2017-2018) with funds of US\$6000).
- Successfully executed several research projects for industrial applications (more than 7 projects with a role of Project Leader (PI) funded by the Iraqi industrial sector

in the years 1998 – 2003. Most of these projects were in the area of industrial automation and workshop technology. These include:

- Modeling and re-engineering of three jaws chucks for turning machines
- An integrated CAD/CAM system utilizing Renault and DEA CMM.
- CAM post-processors for Agiematic wire-cut machines.
- Development of Phillips CNC 432 to CNC 332 post-processor.
- Design and manufacturing of HSS engraving tools.
- Design and development of a CNC rotary head for MAHO 1000C CNC machines.
- Design and development of a PC-based CNC plasma cutting machine.

Training Courses:

- Delivered many industrial training courses.
- Attended many training courses, exceeding a total period of 12 months.

Quality Assurance Activities:

- Certified Internal Auditor for ISO9000 (awarded in the year 2000 by the Iraqi State Centre for Measurement and Quality Control).
- Participant in the development of Sohar University Self-Study Portfolio for Quality Accreditation (2008, 2010, and 2016).
- Familiar with ABET requirements.
- Attended the Omani National Accreditation workshop for the higher education sector (2009).

Current and previous lecturer of the following subjects:

- Fundamentals of Mechatronics.
- CNC machining and CAD/CAM.
- Computer Integrated Manufacturing.
- Manufacturing Processes.
- Advanced Manufacturing Technology
- Workshop Practices.
- Industrial Automation.
- Production Engineering.
- Machine design.
- Technical and engineering drawing.
- Physics and Engineering of Materials
- Engineering Measurements.
- Quality Control.
- Automation and Robotics.

Business Address:

Professor Ghassan Al-Kindi (Ph.D.)
Pro Vice Chancellor for Research and Innovation
Sohar University, PoB 44, Post Code 311, Sohar, Al-Batenah, Oman.

Forwarding address:

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Published Work:

Scholar Google:

<https://scholar.google.com/citations?user=3vidgvwAAAAJ&hl=en&oi=ao>

International Journal Articles

1. Ibrahim, **G Al-Kindi**, MU Qureshi, SA Maghawry “Challenges and Construction Applications of Solid Waste Management in Middle East Arab Countries” Processes 10 (11), 2289, 2022.
2. ALHA Said, ALS Fatma, N Rajamohan, **Al-Kindi Ghassan** “Application of Novel Natural Biomass as Plant Growth Media in Renewable Energy Based Controlled Environment Growing System” Modern Engineering Materials, 17, 2022.
3. AS Al Hinai, FSZS Al Shibli, R Natarajan, **G Al Kindi** “Application of novel natural biomass as plant growth media in renewable energy based controlled environment growing system” Materials Science Forum 1059, 179-187, 2022.
4. MU Qureshi, **G Al Kindi**, MS Alsaidi “Experimental study to investigate dune sand improvement by adding fine waste materials” Key Engineering Materials 902, 153-159, 2021
5. KF Abdulraheem, **G Al-Kindi** “Wind Turbine Blade Fault Detection Using Wavelet Power Spectrum and Experimental Modal Analysis” International Journal of Renewable Energy Research 8 (4), 2167-2179, 2018
6. **G. Al-Kindi** and B. Shirinzadeh “An Evaluation of Surface Roughness Parameters

- Measurement using Vision-based Data” Machine Tools and Manufacture Journal (Elsevier Science) 47(2007) pp. 697-708, (Highest Rank in the Manufacturing Journals with journal Impact Factor of 1.120).
7. **G. Al-Kindi** and B. Shirinzadeh “Feasibility Assessment of Vision-based Surface Roughness Parameters Acquisition for Different Types of Machined Specimens” Image and Vision Computing (Elsevier Science) 27 (2009) 444–458, Journal Impact Factor 1.027
 8. **G. Al-Kindi** and L. Abdul Kareem “An Application of Reverse Engineering Using Vision – Based Data” International Journal of Applied Engineering Research (IJAER) Vol. 4, No. 7, 2009, pp. 1333-1346.
 9. **G. Al-Kindi** and A. Abbar “An investigation of objects shadows utilization in 3D shape re-construction using inexpensive equipment” Engg and Technology Journal, Vol. 28, No. 4, 2010.
 10. **G. Al-Kindi** and A. Khleif “Investigation of utilizing shadows in 3D shape reconstruction” Global Journal of Technology & Optimization (GJTO), Transaction in Utility and Image Recognition, Vol. 1 , June, 2010, pp. 60-65.
 11. **G. Al-Kindi**, K. Gill, and R. Baul “A Comparison of Orthogonal Transforms in Engineering Computer Vision” Proc. InstnMechEngrs Journal of Mechanical Engineering Science Vol. 204, Part C 1990 pp. 321-327.
 12. **G. Al-Kindi**, K. Gill, and R. Baul “Experimental Evaluation of ‘Shape from Shading’ for Engineering Component Profile Measurement” Proc. Instn. Mech. Engrs. Journal of Engineering Manufacture Vol. 203, Part B, 1989 pp. 211-216.
 13. **G. Al-Kindi**, K. Gill, and R. Baul “An Example of Automatic Two-Dimensional Component Inspection Using Computer Vision” Proc. Instn. Mech. Engrs. UK. Journal of Engineering Manufacture Vol. 205(2), Part B, 1991 pp. 71-83.
 14. **G. Al-Kindi**, K. Gill, and R. Baul “An Application of Machine Vision in the Automated Inspection of Engineering Surfaces” Int. Journal of Production Research, Vol.30, No.2, pp. 241-253,1992.
 15. **G. Al-Kindi**, K. Gill, and R. Baul “Vision-Controlled CNC Machines” IEE Computing &Control Engineering journal, UK, April 1993. pp. 92-96.
 16. R. Naqqasha, **G. Al-Kindi**, M.J Kadhim “An Integration Approach of CMM with CAD/CAM Systems” ACMA – HongKong 1997 part 2, pp. 1033-8 vol.2 ISBN962 85138 18.
 17. **G. Al-Kindi** and L. Abdul Kareem “An Application of Reverse Engineering Using Vision – Based Data” International Journal of Applied Engineering Research (IJAER) Vol. 4, No. 7, pp. 1333-1346, 2009.
 18. **G. Al-Kindi**, H. Kadhom and W. Sa’ed “Locating Partially Captured Objects for Eye–in–Hand-Robot Systems” International Journal of Applied Engineering Research (IJAER) Vol. 4, No. 7, pp. 1347-1367, 2009.

19. W. Sa'ed, **G. Al-Kindi**, and H. Kadhom "An Approach to Estimate Object Depth from a Visual Projection Scene for Eye-in-Hand Robot Applications" Journal of Computer Communication and Control Engineering Vol. 6, No. 3, 2006, pp. 9-19.
20. S. Sabeeh, **G. Al-Kindi**, and J. Hussein "Towards Computerized Solution of Nesting Irregular Patterns on Irregular Resources, Eng. & Technology Journal, Iraq Vol.21, No.1, 2002.
21. R. Naqqasha, **G. Al-Kindi**, M.J Kadhim "A Computerized Manufacturing System Employing Reverse Engineering Technique" Al-Muhandis Journal "Journal of the Iraqi Society of Engineers" Iraq, No.150 - 2 , June 2002 pp. 59-78.
22. H. Thameen, **G. Al-Kindi**, and J. Hussein "Computer Aided Construction & Assessment of a Measurement System for Micro-Topography Parameters of Engineering Surfaces" Eng. & Technology Journal, Iraq Vol. 20 , No.5 , 2001.
23. T. Al-Shemary and **G. Al-Kindi** "Graphic Processing & Data Extraction for CAD/CAM Integration" Eng. & Technology Journal, Iraq Vol. 20 , No.2 , 2001.
24. A. Mo'aed, **G. Al-Kindi** "An Approach to the Geometrical Inspection of Randomly Positioned Components Using Vision System" Eng. & Technology Journal, Iraq Vol.20, No. 4, 2001 pp.145-162
25. L. Mohammed, **G. Al-Kindi**, and J. Hussein "An Approach to the Development of a CAD-Driven Thermal Cutting Machine" Scientific journal in Tikrit University Eng. Dept. Mar. 1999.
26. **G. Al-Kindi** "A Computerized Modeling System for the Design and Manufacture of Jaws for 3 Pieces Gripping Chucks" Eng. & Technology Journal Vol. 19, No.4, 2000 pp. 348-366
27. T. Al-Ani, **G. Al-Kindi**, and J. Hussein "Development and Evaluation of a Computerized Design and Manufacture System for Blanking Dies" The Scientific Journal of Al-Anbar University, Iraq (2004).
28. H. Majeed, **G. Al-Kindi**, and J. Hussein "An Investigation of CNC Thermal Cutting Machine Development and Evaluation" Engg and Technology Journal Vol 24, No. 7, 2005 pp 816 – 843.
29. L. Mohammed and **G. Al-Kindi** "An Approach to 3D- Surface Curvature Analysis" Engg and Technology Journal Vol 24, No. 7, 2005, pp. 844 – 852
30. L. Mohammed and **G. Al-Kindi** "Voronoi Diagram Based Offset Paths for NC" Engg and Technology Journal, Vol 22, No. 2, 2003, pp 52-59.
31. **G. Al-Kindi** and K. AL – Mendwi "Developing a Methodology to Prepare Design according to Production Requirement" The Engineering Journal, University of Baghdad, Vol.16, No.4, pp. 5958 – 5981,2010 .

32. **G. Al-Kindi** and H. Zughaer “Intelligent Vision-based Computerized Numerically Controlled (CNC) Machine” Springer Lecture Notes in Electrical Engineering ISSN: 1876-1100, 2012, Volume 123, pp.619-628.
33. **G. Al-Kindi** and H. Zughaer “An Approach to Improved CNC Machining using Vision Based System” Journal of Materials and Manufacturing Processes (Taylor & Francis one of the high rank journals), Volume 27, Issue 7, pp.765-774, 2012.
34. **G. Al-Kindi** and B. Lovell “Normalised Equi-angular Recognition Technique of Human Ear Signatures for use in Biometrics Applications”, International Journal of Engineering and Technology (IJET), Vol.4, No.3, pp. 330-335, 2012.
35. Khalid F. Raheem and **G. Al-Kindi** “Wind Turbine Blade Fault Detection Using Finite Element-Modal Analysis” IJAER 10(21):42287-42292, December 2015
36. Khalid F. and **G. Al-Kindi** "A Simplified Wind Turbine Blade Crack Identification Using Experimental Modal Analysis (EMA)" July 2017, International Journal of Renewable Energy Research pp.715-722.
37. Khalid F. and **G. Al-Kindi** "Wind Turbine Condition Monitoring using Multi-Sensor Data system" Accepted for publication July 2017, International Journal of Renewable Energy Research.

Conference Articles

38. ZH Neamah, LAH Al-Kindi, **G Al-Kindi** “Additive Manufacturing of Custom Orthopedic Implants: A Review” 2022 International Conference for Natural and Applied Sciences (ICNAS), 11-16 2022.
39. **G. Al-Kindi** and H. Zughaer, “Towards the Development of Intelligent Vision-Based Computerized Numerical Control (CNC) Machine”, Proceedings of the International Conference on Applied Mechanics, Materials, and Manufacturing, ICAMMM 2010, Department of Mechanical and Industrial Engineering, Sultanate of Oman, December 13-15, 2010, Vol.2, ISSN:2220-3508, pp 324-330 .
40. **G. Al-Kindi**, Salah Fadhil, and Mohammed J. Kadhim “A Kinematical Modeling and Analyses of the Synchronized Action Tasks in a Lock-Stitch Type Sewing Machine” Proceedings of the International Conference on Applied Mechanics, Materials, and Manufacturing, ICAMMM 2010, Department of Mechanical and Industrial Engineering, Sultanate of Oman, December 13-15, 2010, Vol.1, ISSN:2220-3508, pp 478-483.
41. E. Najim and **G. Al-Kindi** “Classification of Fingerprint Images Using Neural Networks Technique” The 2nd Babel University Conference, May 2008, organized by Babel University, Babel, Iraq.

42. E. AlShemmary, **G. Al Kindi**, W. Sa'id and M. Al Hassany, "An Approach to Fingerprint Image Enhancement and Post-Processing Technique", Proceedings of the First Conference for Pure and Applied Sciences, University of Kufa, pp.1-9, 12-13 March, 2008.
43. **G. Al-Kindi** and L. Abdul Kareem "Vision – Based Computer Numerical Control (CNC) Data Acquisition for Reverse Engineering Applications" ICMSAO'09 3rd Int. Conf. on Modeling, Simulation, and Applied Optimization January 20 – 22, 2009 American University of Sharjah, United Arab Emirates.
44. **G. Al-Kindi**, H. Kadhom and W. Sa'ed "A Proposed System to Locate Partially Captured Objects for Eye-in-Hand-Robot Configuration" ICMSAO'09 3rd Int. Conf. on Modeling, Simulation, and Applied Optimization January 20 – 22, 2009 American University of Sharjah, United Arab Emirates.
45. **G. Al-Kindi**, B. Shirinzadeh and Y Zhong "A Vision-based Approach for Surface Roughness Assessment at Micro and Nano Scales" ICARCV 2008 10th Int. Conf. on Control Automation Robotics and Vision (IEEE listed)pp.1903-1908, 978-1-4244-22876/08/\$25.00 © 2008 IEEE –P0282, 17th -20th DEC 2008 Hanoi Vietnam.
46. S. Al-Kindi and **G. Al-Kindi** "Breast sonogram and mammogram enhancement using hybrid and repetitive smoothing-sharpening technique" 1st Middle East Conference on Biomedical Engineering (MECBME'11) – IEEE-listed, February 2011, AUS, Sharjah, UAE.
47. **G. Al-Kindi**, B. Shirinzadeh, and Y. Zhong "Machine Vision Application for Machined Components Surface Roughness Assessment in the Micro and Nano Scale Regions" 13th International Conference on Robotics and Mechatronics – M2VIP , Australia, 2006
48. K. Mohammed, **G. Al-Kindi**, and W. Issa "Application of Matrix Operators to Construct Slip-Line Fields for Plane-Strain Extrusion Process Using Computer Simulation" Proceedings of The First Iraqi National Mechanical Eng. & Metallurgy Conf. Al-Kufa – AM19, Oct. 2000.
49. T. Al-Shemary and **G. Al-Kindi** "An Evaluation of Current Progress in the Field of Computer Integrated Manufacturing The 1st Iraqi National Scientific Conference in AlMostansiriya Univ. College of Engg, 1997
50. R. Naqqasha, **G. Al-Kindi**, M.J Kadhim "An Investigation of Frequency Domain Applications for Automatic Inspection and Comparison of Object Geometry Using CMM Data" Proceedings of the 2nd Jordanian Int. Conference on Mechanical Engineering – 1997, pp. 1097-1107.
51. R. Naqqasha, **G. Al-Kindi**, M.J Kadhim "An Approach to Automatic Drawing Generation of Existing Components Using Reverse Engineering Technique Proceedings of the First Iraqi Scientific Conference in the College of Science – Baghdad Vol. 1, Dec. 1997, pp.37-51.

52. R. Naqqasha, **G. Al-Kindi**, M.J Kadhim “Automatic Entity Recognition of Object Features for CMMCAD/CAM Integration Proceedings of The First Iraqi National Mechanical Eng. & Metallurgy Conference Al-Kufa – CA3 Oct. 2000.
53. S. Sabeeh, **G. Al-Kindi**, and J. Hussein “Assessment of Contour Shape Features Impact on the Nesting of Irregular Patterns on Irregular Resources” Proceedings of The First Iraqi National Mechanical Eng. & Metallurgy Conference Al-Kufa – PE2 Oct. 2000.
54. **G. Al-Kindi**, and A. Younis “Towards the Extraction and Recognition of Engineering Features from Previously Prepared Engineering Drawings for Use in CAD Systems” The 6th Iraqi Technology Conference, University of Technology – Baghdad 2000
55. S. Sabeeh and **G. Al-Kindi** “Computerized Allocation of Mix-Sizes Rectangular Patterns on Multiple Cutting Stock Sheets” Proceedings of The Second Iraqi National Mechanical Engg. & Metallurgy Conference Al-Kufa – IE6 Oct. 2002.
56. S. Sabeeh, **G. Al-Kindi**, and J. Hussein Investigation of Automatic Pattern Nesting on Leather Hides Using Pattern Length Attribute Proceedings of The Second Iraqi National Mechanical Engg. & Metallurgy Conference Al-Kufa – IE5 Oct. 2002.
57. K. Al-Kobaysi and **G. Al-Kindi** “Development of a Technological Process for Manufacturing in a State Industrial Company” Proceedings of The First Iraqi National Mechanical Eng. & Metallurgy Conference Al-Kufa – IE2 Oct. 2000.
58. **G. Al-Kindi** and S. Hussein “Automatic Generation of CNC-Machine Codes Using Primitive-Based Solid Modeling Technique” The 6th Iraqi Technology Conference – University of Technology, 2000
59. H. Al-Jawad, **G. Al-Kindi**, and Z. Issa “Computerised Design and Manufacturing of Artificial Joints Geometry” Proceedings of The First Iraqi National Mechanical Eng. & Metallurgy Conference Al-Kufa – CA5 Oct. 2000.
60. **G. Al-Kindi** and A. Al-Jasam “Towards Tool-Path Optimization for CNC Milling Machines” Proceedings of the Second Iraqi National Mechanical Engg. & Metallurgy Conference Al-Kufa – PE8 Oct. 2002.
61. **G. Al-Kindi** and Brian C.Lovell “NormalisedEqui-angular Recognition Technique of Human Ear Signatures for use in Biometrics Applications” Proceedings of the 2011 International Conference on Security Science and Technology (ICSST 2011) January 21 - 23, 2011, Chongqing, China, paper ID R050, IEEE-listed,<http://www.icsst.org/>
62. H. Abdul-Ameer, **G. Al-Kindi**, and H. Zughaer “Towards Computer Vision Feedback for Enhanced CNC Machining” 2011 International Conference on Industrial and Intelligent Information (ICIII 2011), IEEE-listed, April 1-3, 2011, Bali Island, Indonesia.
63. **G. Al-Kindi** and H. Zughaer “Towards the Development of Intelligent Vision-Based Computerized Numerical Control (CNC) Machine” Proceedings of ICAMMM 2010, 1315 December 2010, Sultan Qaboos University, Oman.

64. **G. Al-Kindi** and H. Zughaer “Intelligent Vision-based Computerized Numerically Controlled (CNC) Machine” 2011 International Conference on Automation and Robotics (ICAR2011) Dubai, UAE, December 1-2,2011, (the article has also been published by the conference committee in Springer Lecture Notes in Electrical Engineering ISSN: 18761100, 2012, Volume 123, 619-628, DOI: 10.1007/978-3-642-25646-2_80).
65. H. Zughaer and **G. Al-Kindi** “Development of Smart CNC Machine Tool by Overcoming Machine Blindness” Proceedings of 2011 Qatar Foundation Annual Research Forum, CSP28, p.282. 2011.
66. **G. Al-Kindi** and B. Winn "Bridging the Gap between Industry and academia: a case study of establishing AMRC-Oman (Sohar University)” 3rdf MENA HE Leadership Forum, UAE, 2017.

Postgraduate (MSc and PhD) theses titles supervised by Dr. Ghassan Al-Kindi

	Thesis Title	Student Name	Degree	University	Year
1	Data Extraction and processing for CAD/CAM Integration	TamatherNaji Al-Shameri	M.Sc.	Prod. & Metallurgy Dept, UOT	1994
2	Applying CMM Data to CAD/CAM Systems	Rawaa Richard Naqasha	Ph.D.	Mech. Eng. Dept UOT	1996
3	Development and evaluation of path control system for flame and plasma cutting machines using CAD output	Laith Abdulla Mohammed	M.Sc.	Prod. & Metallurgy Dept, UOT	1998
4	Computerised measurement and evaluation of engineering surface roughness	HayfaaThamee nDalali	M.Sc.	Prod. & Metallurgy Dept, UOT	1998
5	Geometrical inspection of randomly positioned components using a vision system	AtheerMo'ayed Al-Sheikly	M.Sc.	Prod. & Metallurgy Dept, UOT	1998
6	Development and evaluation of a CNC motion system for thermal cutting machines	HyderMajeed Hameed	M.Sc.	Prod. & Metallurgy Dept, UOT	1998
7	Automatic Irregular shaped pattern layout on irregular shaped resources	Susan Sabeeh Al-Zubaidi	Ph.D.	Prod. & Metallurgy Dept, UOT	1999
8	Computerised design and manufacturing of Dies and other complicated shape components	Tahseen Al-Ani	Ph.D.	Prod. & Metallurgy Dept, UOT	1999
9	Entity extraction and recognition of previously prepared engineering drawings for use in CAD systems	AlaaDahamYou nis	M.Sc.	Mech. Eng. Dept., UOT	1999
10	Computerised design and manufacturing of spur gears	HussamKadhim abd al-ameer	M.Sc.	Mech. Eng. Dept., UOT	1999
11	An off line programming system for CNC milling machines	Sinan Jamal Hussain	M.Sc.	Prod. & Metallurgy Dept, UOT	1999
12	Development of a technological process in a manufacturing firm	Kamal Abd Al-Kareem AlKobaysi	M.Sc.	Prod. & Metallurgy Dept, UOT	1999
13	Development and evaluation of a computerized roundness measurement system	Hameed SarhanAbd AlAmeer	M.Sc.	Prod. & Metallurgy Dept, UOT	1999

14	Tool path optimization for CNC milling machines	Abdul Salam Al-Jamas	Ph.D.	Prod. & Metallurgy Dept, UOT	2000
15	Investigation of computerized X-ray image enhancement	InbithakMohammed Ali	M.Sc.	Physics Dept, Ibn Al-HaythemCol., Univ. of Baghdad	2000
16	Off Line CNC code generation system for turning machines	Adnan JameelAbaas	M.Sc.	Prod. & Metallurgy Dept, UOT	2000
17	Computerised design and evaluation of guiding collets for cylindrical parts	Jabar Kadhimbass Al-hussian	M.Sc.	Prod. & Metallurgy Dept, UOT	2000
18	Canned cycle generation for CNC machines	Baraa Ahmed	M.Sc.	Prod. & Metallurgy Dept, UOT	2000
19	An Investigation of 3D interpolating emulator for CNC milling machines	WissamKadhim Hamdan	M.Sc.	Prod. & Metallurgy Dept, UOT	2000
20	Comuterised analysis system for the material behaviour using a tensile testing machine	Muhaned Mohammed Hussien	M.Sc.	Prod. & Metallurgy Dept, UOT	2000
21	Design and manufacturing of the geometrical shapes of artificial knee joints for medical applications	HaythemHashim Al-Jawad	M.Sc.	Col. Of Eng., Univ. of Baghdad	2000
22	Application of Matrix operators of slip=line fields for plan=strain extrusion process using computer simulation	Kadim Mohammed Abed	M.Sc.	Mil. Col. Of Eng., Baghdad, Iraq	2000
23	An implementation of patch wrapping technique using image processing	Mo'ataseem Ibrahim Malik	M.Sc.	Physics Dept, Ibn Al-HaythemCol., Univ. of Baghdad	2000
24	An evaluation of digital image matching techniques	AmaarSabriAbd Al-Kareem	M.Sc.	Physics Dept, Ibn Al-HaythemCol., Univ. of Baghdad	2000
25	Evaluation of manufacturing process capability in an industrial firm	Ahmed Abdul Rasool	M.Sc.	Col. Of Eng, BaghdadUniv.	2001
26	Three Dimensional CAD representations and data processing for tool path generation	Ra'edZuhair	M.Sc.	Prod. & Metallurgy Dept, UOT	2001
27	Investigation of 3D geometrical surface reconstruction and machining using existing component data	Laith Abdulla Mohammed	Ph.D.	Prod. & Metallurgy Dept, UOT	2002

28	Straight Bevel Gear Design and Manufacturing	Jinan Mohammed Naji	M.Sc.	Prod. & Metallurgy Dept, UOT	2002
29	Investigation of vision data processing for eye-in hand robot applications	HussamKadhim abd al-ameer	Ph.D.	Mech. Eng. Dept., UOT	2003
30	Die design and manufacturing methodology for stainless steel conical shaped parts	Sabeeh Salman	M.Sc.	Al-RasheedCollege, UOT	2003
31	Evaluation of feedback signal generation for position measurements of CNC machines	Nawaf Mohammed Abd Al-Wahed	M.Sc.	Computing and software eng. Dept, Col. Of., Al-NahrainUniv.	2003
32	Evaluation of die design in drawing of elliptical section using finite element analysis	Abdul Kareem Mohammed	Ph.D.	Prod. & Metallurgy Dept, UOT	2004
33	Vision-based computer numerical control data generation for reverse engineering applications	Luma Abdul Kareem	M.Sc.	Control and Systems Eng., UOT	2004
34	Pattern recognition algorithms for use in a smart robots	Ali AbarKhleif	Ph.D.	Mech. Eng. Dept., UOT	2005
35	Computerised modeling of a sewing machine	Salah Fadhil	M.Sc.	Mech. Eng. Dept., UOT	2005
36	Design and evaluation of a stair climber wheel chair for us by a disabled person	MaysaaAbd AlKareem	M.Sc.	Mech. Eng. Dept., UOT	2005
37	Investigation of acoustic noise analysis generated by a domestic appliances	Fouad Ahmed	M.Sc.	Mech. Eng. Dept., UOT	2006
38	Design and evaluation of DFM and DFA systems DFM = Design for Manufacturing DFA=Design for Assembly	KwakibAbd AlNabi	MSc.	Col. Of Eng., Univ. of Baghdad	2007
39	An investigation of finger prints enhancement and recognition using neural network	Ibtisam Najim Abdullah	Ph.D.	Control and Systems Eng., UOT	2007
40	Speeding up the design and manufacturing procedures for die preparation of pressure die casting	Ahsan Abd AlHassan	Ph.D.	Al-RasheedCollege, UOT	2007
41	Evaluation of crane mechanisms to execute simultaneous tasks	Ibtisam Shehab Ahmed	Ph.D.	Mech. Eng. Dept., UOT	2007