Assoc. Prof. Dr. LOKMAN KUZU

PROFESSIONAL EXPERIENCE

Aug, 19 – Now   **TUA (Turkish Space Agency)**   Ankara, Turkey
Board Member

Mar, 14 – Oct,19   **TÜBİTAK Space Tech. Research Institute**   Ankara, Turkey
Chairman of the Board and Institute Director
Some important projects listed here:
- TURKSAT 6A Communication Satellite (ongoing)
- IMECE Observation Satellite (1 m resolution) (ongoing)
- MIYEG Ground Station Project (completed)
- HALE (Hall Effect Thruster) Project (completed)
- HASSAS 1 and 2: Precision Farming Projects (Phase 1 completed)
- GEOPORTAL project (raw satellite imagery acquired from RASAT observation satellite is provided to end users on a web portal.)

Jan, 19 – Now   **TÜBİTAK Bilim ve Teknik Dergisi**   Ankara, Turkey
Editorial Advisory Board Member

Sep, 19 – Now   **Sakarya University**   Sakarya, Turkey
Adjunct Instructor
- MKM-582 Uzay Teknolojileri ve Ekonomi (Fall'19)

Feb, 18 – Now   **Univ. of Turkish Aeronautical Association**   Ankara, Turkey
Adjunct Instructor
- AST-486 Spacecraft Design (Spring '18)
- AST-486 Spacecraft Design (Spring '19)

Sept, 14 – Now   **Industry Advisory Board Member**   Ankara, Turkey
- Middle East Technical University EEE Dept. North Cyprus Campus
- Middle East Technical University Aerospace Engineering Dept.
- Middle East Technical University Electrical and Electronics Engineering Dept.
- Istanbul Technical University Aeronautical Engineering Dept.
- Bilkent University Electrical Engineering Dept.
- Middle East Technical University North Cyprus Campus EEE Dept.

Mar, 14 – Apr,15   **Tubitak SAGE Institute**   Ankara, Turkey
Board Member

Sep, 12 – Mar, 14   **Türksat A.Ş.**   Ankara, Turkey
Senior Design Engineer at Department of R&D and Satellite Design
- Design, analysis and implementation of a Microstrip Patch 16×16 Array Antenna Antenna for TV reception. TEYDEB Project No: 3120610, 2013.
- Working on the design of different types of antenna elements and arrays, microstrip filters, and numerical methods.
- Short course on Satellite Communications for interns at Türksat (June 2013)

Sep, 12 – Jan, 16   **Yıldırım Beyazıt University**   Ankara, Turkey
Adjunct Instructor
- ECE-303 Electromagnetic Fields (Fall '15)
- ECE-304 Electromagnetic Waves (Spring '15)
- ECE-303 Electromagnetic Fields (Fall '14)
- ECE-202 Engineering Mathematics II (Spring '14)
- ECE-529 Microstrip Filter Design (Fall '13)
- ECE-524 Principles of Communications Satellites(Spring '13)
- ECE-525 Antennas from Theory to Practice (Fall'12)

Feb, 12 – Sep, 12   **Türksat A.Ş.**   Kamakura, Japan
Direct Participation Program Manager
- T4A/T4B satellites in Mitsubishi Electric Co. Kamakura Works and JAXA Tsukuba

Jun, 11 – Jan,12   **Türksat A.Ş.**   Ankara, Turkey
Communications Payload Design Specialist
- Turksat 5A
- T4A and T4B satellites Direct Participation Program

Aug, 08 – Jun, 11   **Türksat A.Ş.**   Ankara, Turkey
TV Platform Development Director
- Responsible for Cable TV content (conducting negotiations with TV and radio channels, frequency planning, EPG, drawing up new channel agreements, etc.)
- Pursuing DVB-T and DVB-H projects in Turkey
- Advisor for an M.Sc. thesis titled: "*Estimation of Intermodulation Effects in Comm. Satellite Payloads*".

Jan, 08 – Aug, 08   **Türksat A.Ş.**   Ankara, Turkey
Communications Payload Design Specialist
- Prepared Assembly Integration and Test Facility Specifications including CATR (Compact Antenna Test Range) and EMC labs to be built on TAI campus in Turkey.

Jun, 07 – Jan, 08   **Türksat A.Ş.**   Cannes, France
Communications Payload Design Specialist
- Pursued TURKSAT 3A Assembly, Integration and Test Phases.

Apr, 06 – Jun, 07   **Türksat A.Ş.**   Toulouse, France
Communications Payload Design Specialist
- Conducted Tusat-1 design up to CDR (Critical Design Review) level.

Jul, 05 – Feb, 06   **The University of Mississippi, Electrical Dept.**   Oxford, MS
Visiting Scholar
- Focused on computational electromagnetics (Finite Difference methods).

May, 04 – Dec, 05   **DEC Group USA, Co.**   Boston, MA
North America Regional Director
- Directed and executed overseas projects in coordination with engineering teams based in Turkey, Central Asia, and Africa.

Aug, 00 – Jun, 01   **PPC Inc.**   Manlius, NY
Design Engineer at R&D department
- Ground Fault Detector
- Ghost Buster (Sheath Current Attenuator)

Designed, simulated and prototyped and tested a filter for EMI signals on the shield of 75-ohm coaxial cables by using an appropriate ferrite material. This project is documented and the product is on the market.
- Surge Protector

Aug, 00 – May, 06   **Syracuse University Electrical Dept.**   Syracuse, NY
Research, Teaching Assistant and NT Administrator.
- Focused on Microwave Engineering, Computational Electromagnetics.
- Installation, maintenance and training of some special software, such as Ansoft HFSS, Agilent ADS, Sonnet, Microstripes KCC, AutoCAD, Camtastic, etc.
- Web design of SuRF (Syracuse University RF/MW lab).
- Lab experiments procedures prepared and conducted microwave meas. labs.

Aug, 99 – Aug, 00   **Doğu Elektrik A.Ş.**   İstanbul, Turkey
Assistant Project Manager, Supervision of Electrical works and installations of the following projects
- Alarko Carrier Factory, Gebze, Istanbul.
- Konya Shopping Mall.

Aug, 98 – Aug, 99   **Sasel & Doğu Elektrik A.Ş.**   Istanbul, Turkey
Procurement and Logistics Engineer, Cost Estimator
- Tat Towers Business and Shopping Center Electrical Works (project came to naught)

Supervision of Electrical works and installations of the following projects
- CS/FB Bank Istanbul Branch Office Electrical Works
- J.P. Morgan Bank Istanbul Branch Fit-Out Electrical Works

Oct, 97 – Mar, 98 **Sasel A.Ş.**   Tashkent – Uzbekistan
Chief Site Engineer
- Shopping Center Project, Tashkent - Uzbekistan.

Aug, 97 – Oct, 97 **Sasel A.Ş.**   Ankara, Turkey
Office Engineer
- ITEC Complex National Bank of Uzbekistan Headquarters, Business Center, Shopping Center Projects.

EDUCATION

Ph.D., Electrical Engineering 2/2006	*Syracuse University, Syracuse, NY.* Dissertation: "Electromagnetic Scattering from Chiral Materials using the Finite Difference Frequency Domain Method." 4.0/4.0
M.Sc., Electrical Engineering 5/2003	*Syracuse University, Syracuse, NY.* Thesis: "Design of Multi-Octave All-pass Precision Phase Shift Networks." 3.97/4.0
B.Sc., Electrical Engineering 7/1997	*Middle East Technical University, Ankara, Turkey* Specialization in Power Electronics and Computer.

TRAINING

Performans Geliştirme ve Yönetme 27/04/2019	*Prof. Dr. Tanıl Kılınç* *İstanbul Üniversitesi* *Performans Yönetim Sistemi, Performans Ölçme Teknikleri ve Süreci, Performans Değerleme Yöntemleri ve Sistemi, Performans Yönetimi Sisteminin Oluşturulmasında Dikkat Edilecek Hususlar*
Etkili Karar Alma ve Problem Çözme Teknikleri 20/04/2019	*Dr. Altan Özkil* *Atılım Üniversitesi, Savunma Teknolojileri Araştırma Merkezi*
Ar-Ge Kurumlarında İletişim ve İlişki Yönetimi 30/03/2019	*Prof. Dr. Erkan Yüksel* *Anadolu Üniversitesi İletişim Bilimleri Fakültesi*
Ar-Ge Kurumlarında Çatışma Yönetimi ve Müzakere 13/04/2019	*Prof. Dr. Ünsal Sığrı* *Başkent Üniversitesi*
ESA ECSL Summer course on Space Law and Policy Sept/2015	*University of Caen, Basse-Normandie, France* The Outer Space Treaty 1967, The Moon Agreement 1979, International Space Law, Liability and Registration, Soft Law applicable to Space activities, Space Traffic Management, Remote Sensing, ESA, Space Agencies, Space contracts, Insurance, Launch campaign, etc. *2-week training*
Diplomasi Kültürü ve Protokol Kuralları	*Murat Oğuz, Ministry of Foreign Affairs, Diplomasi Akademisi, Emekli Büyükelçi*
Satellite System Assembly and Integration Skills Course 2-8/2012	*Mitsubishi Electric Corporation, Kamakura, Japan* Satellite Assembly, Integration, Adhesive Treatment, etc. *6 months*
Protokol Kuralları 25/2/2011	*Merve Cana Sonbudak* *Dışişleri Bakanlığı Diplomasi Akademisi*
Kişisel İmaj, Protokol Kuralları, Siyasi Etik 12/2010	*Muhammed Alpkent, Yasemin Tecimer, Dr. Hüseyin Aykut*
Bilişim Hukuku Eğitimi (Information Technology Law) 5/2010	*Av. Ceyda C. Akaydın and Av. Ali O. Özdilek, Ankara* *2-day training*
ISO 9001 Kalite Yönetim Sistemi Temel Eğitimi 2/2010	*Erdem Keklik, TSE, Ankara* *3-day training*
İkna Teknikleri (Persuasion Techniques) 5/2009	*Dr. Sami Selçukbiricik, TUSDATA, Ankara* *4-week training*

Project Management Professional 2/2008	*İstanbul Kurumsal Gelişim, Ankara* *5-week training*
Satellite AIT Organization, Activities and Facilities 6/2007	*Thales Alenia Space, Cannes, France* Satellite test phases, Thermal Vacuum Tests, Vibration tests, Electrical tests, Compact Antenna Test Range, Payload and TTC-RF system tests, Acoustic chamber tests.
Advanced Training to Spacecraft Design 10/2006	*Alcatel Alenia Space, Toulouse, France* Among the courses taken during training are: Communication detailed course, EMC analysis, Payload and Antenna detailed design.
Introduction to Spacecraft Design 9/2006	*Alcatel Alenia Space, Cannes, France* Among the courses taken during training are: Communication basics, Introduction to Microwave, Propagation, Oscillators, Filters, Satellite Technologies, TTC-RF subsystem, Intermodulation analysis, Redundancy rings (switching matrices), RF Link Analysis, Link Budgets, Reliability, Antennas, Thermal Analysis, Radiation compatible design and analysis.

PUBLICATIONS

Conferences

1. E. Arvas, M. Hasanovic, S. Tozin, T. Imeci, S. Arvas and L. Kuzu, "A project-based graduate antenna course," *2003 IEEE International AP Symp., and USNC/CNC/URSI North American Radio Science Mtng*, June 22-27, Columbus, OH, pp. 454, URSI Digest.

2. L. Kuzu, V. Demir, A. Z. Elsherbeni, and E. Arvas, "Electromagnetic scattering from chiral media using the Finite Difference Frequency Domain technique," *Mississippi Academy of Sciences Annual Meeting*, Vicksburg, MS, 22-24 February 2006.

3. L. Kuzu, V. Demir, A. Z. Elsherbeni, and E. Arvas, "Electromagnetic scattering from chiral material using the Finite Difference Frequency Domain method," *The Twelfth Biennial IEEE Conference on Electromagnetic Field Computation CEFC 2006* Miami, FL, USA, p. 167, April 30 - May 3, 2006. **DOI**: 10.1109/CEFC-06.2006.1632959

4. L. Kuzu, V. Demir, A. Z. Elsherbeni, and E. Arvas, "Electromagnetic scattering from arbitrarily shaped three-dimensional chiral objects using the finite difference frequency domain method," *IEEE International Symposium on Antennas and Propagation and URSI National Radio Science Meeting*, p. 333, Albuquerque, NM, USA, 9-14 July 2006.

5. E. Demircioglu, M. M. Nefes, L. Kuzu, "Architectural Optimization in Satellite TCR Systems through Reliability Analysis," *28th European Telemetry Conference*, 15-17 April 2008 New Munich Trade Fair Centre, Germany.

6. E. Demircioglu, E. Sanli, L. Kuzu, M. H. Sazli, "IP Based Satellite Applications in Converged Network Solutions" *AB 2009, Muğla University*, 10-12 February 2010.

7. Ahmet F. Yagli, Mesut Gokten, Sehabettin T. Imeci, and Lokman Kuzu, "Scattering from Three Dimensional Gyrotropic Bodies Using FDFD Method," *ACES Conference*, March 27-31, 2011, Williamsburg, VA.

8. Lokman Kuzu, Mesut Gokten, Ahmet F. Yagli, Veli Yanikgonul, Erdem Demircioglu, "Fourth-Order Finite Difference Frequency Domain Method for General Guided Wave Structures," *ACES Conference*, April, 10-14, 2012, Columbus, OH.

9. Ahmet F. Yagli, Mesut Gokten, Lokman Kuzu, Veli Yanikgonul, "Scattering from Gyroelectric Objects Using FDFD Method," *ACES Conference*, April, 10-14, 2012, Columbus, OH.

10. Mesut Gokten, Ahmet F. Yagli, Veysel Demir, Lokman Kuzu, Erol Sanli, "The Multiresolution Frequency Domain Method for the Efficient Analysis of Ferrite Loaded Waveguides," *ACES Conference*, April, 10-14, 2012, Columbus, OH.

11. Veli Yanikgonul, Lokman Kuzu, Ahmet F. Yagli, Mesut Gokten, Murat H. Sazli, "A Practical Simulation Tool for Predicting Spectral Regrowth in Communication Satellite Receivers," *SPACOMM Conference*, April 29 – May 4, 2012, Chamonix / Mont Blanc, France.

12. Mehmet S. Demirtas, S. Taha Imeci, Lokman Kuzu, "Dual Resonance Microstrip Patch Antenna," *ACES Conference*, pp. 928-933, April 10-14, 2012, Columbus, OH.

13. L. Kuzu, A. F. Yagli, M. Gokten, V. Yanikgonul, "Reliability Analysis of TUSAT Satellite Communication Payload," *IEEE Estel Conference*, October 2-5, 2012, Rome, Italy. (**DOI**: 10.1109/ESTEL.2012.6400167)

14. M. Gokten, A. F. Yagli, L. Kuzu, V. Yanikgonul, E. Sanli, S. Gulgonul, "Preliminary Design of TUSAT Satellite Communication Payload," *IEEE Estel Conference*, October 2-5, 2012, Rome, Italy. (**DOI**: 10.1109/ESTEL.2012.6400160)

15. Lokman Kuzu, Mesut Gökten, A. F. Yagli, and Erdem Demircioglu, "Higher-order Finite Difference Frequency Domain Methods for Electromagnetic Problems," *ACES Conference*, March 24-28, 2013, Monterey, CA.

16. Lokman Kuzu, Mesut Gökten, A. F. Yagli, Senol Gulgonul, and Erdem Demircioglu, "T-shaped Broadband Dual Polarized Microstrip Patch Antenna," *ACES Conference*, March 24-28, 2013, Monterey, CA.

17. Erdem Demircioglu, Murat H. Sazli, S. Taha Imeci, Hakki A. Ilgin, Lokman Kuzu and Fikret Altunkilic, "Artificial Neural Networks Based Multiband Microstrip Antenna Modeling," *ACES Conference*, pp. 552-557, March 24-28, 2013, Monterey, CA.

18. Batuğ Çalı, Lokman Kuzu, Mesut Gökten, and Taha İmeci, "Asymmetric Inset-fed Patch Antenna for Radio Frequency Identification (RFID)," *ACES Conference*, pp.546-551, March 24-28, 2013, Monterey, CA.

19. A.F. Yagli, M. Gokten, L. Kuzu, S. Gulgonul, I. Oz, "Scattering from Inhomogeneous Chiral Objects using MRFD Method," *International Microwave & RF Conference*, 14-16 December 2013, New Delhi, India.

20. L. Kuzu, S. Arvas, "2nd Harmonic Suppression of Microstrip Ultra-Wideband Bandpass Filter using E-shaped Etched Resonators," *ACES Conference*, March, 2014.

21. V. Akan, S. Köse, L. Kuzu, "Simulation and Realization of a Miniaturized Tunable Microstrip Patch Antenna," *ACES Conference*, March, 2015.

22. A. F. Yagli, M. Gokten, L. Kuzu, H. H. Ertok, and S. Gulgonul, "An Antenna Array for Ku band Satellite Reception", *ACES Conference*, March, 2015, p. 319-320, Williamsburg, VA.

23. L. Kuzu, M. Gokten, A. F. Yagli, and S. Gulgonul, "Ku Band Planar Array Antenna for Satellite TV Signal Reception", *IEEE AP-S/URSI*, July, 2015, p. 1866-1867, Vancouver, Canada.

24. O. Kiris, V. Akan, M. Gokten and L. Kuzu, "Three-way substrate integrated waveguide (SIW) power divider design," *2016 IEEE/ACES International Conference on Wireless Information Technology and Systems (ICWITS) and Applied Computational Electromagnetics (ACES)*, Honolulu, HI, 2016, pp. 1-2.

    https://ieeexplore.ieee.org/document/7465421

25. O. Kiris, V. Akan, M. Gokten and L. Kuzu, "Implementation of three-way power divider based on substrate integrated waveguide," *2017 USNC-URSI Radio Science Meeting (Joint with AP-S Symposium)*, San Diego, CA, 2017, pp. 111-112.

    https://ieeexplore.ieee.org/document/8074922

26. Orcun Kiris, Lokman Kuzu, Mesut Gokten, Kagan Topalli, Fahri Ozturk, Mehmet Unlu, "A Reflectarray Unit Cell Design based on Split Ring Loaded with Triple Dipoles", *May 6-9, 2018. Bosnia Herzegovia.*

https://cmteef.ius.edu.ba/

Journals

1. L. Kuzu, V. Demir, A. Z. Elsherbeni, and E. Arvas, "Electromagnetic scattering from arbitrarily shaped chiral objects using the finite difference frequency domain method", PROGRESS IN ELECTROMAGNETICS RESEARCH, (PIER 67), Chief Editor: J. A. Kong, pp. 1-24, 2007.

   DOI: **10.2528/PIER06083104**

2. Ahmet F. Yagli, Mesut Gokten, S. Taha Imeci, and Lokman Kuzu, "Scattering from Gyrotropic - Bodies Using FDFD Method", *International Journal of RF and Microwave Computer-Aided Engineering*, vol.21, issue 1, p. 77-84, January, 2011. DOI: **10.1002/mmce.20490**

3. L. Kuzu, "A fourth-order accurate compact 2-D FDFD method for waveguide problems", *Turkish Journal of Electrical Engineering and Computer Sciences*, 30 June 2013.

   DOI: **10.3906/elk-1304-150**

4. L. Kuzu, O. Şengül, E. Demircioğlu, "FDFD(4) Yöntemi İle Rastgele Şekilli Cisimlerden Elektromanyetik Saçılma Değerlerinin Hesaplanması", *Gazi Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi*, cilt 28, no 2, 223-229, 2013.

   Journal of the Faculty of Engineering and Architecture of Gazi University

5. Ahmet F. Yagli, Mesut Gokten, Lokman Kuzu, "MRFD Method for Scattering from Chiral Bodies", *Turkish Journal of Electrical Engineering and Computer Sciences*, 2013.

6. Medeni Soysal, Gülmelahat Doğan, Lokman Kuzu, "Uzay Faaliyetlerine İlişkin Uluslararası Hukukun Kaynakları ve Birleşmiş Milletlerin Rolü (Sources of International Law Concerning Space Activities and the Role of the United Nations)", *Çankaya Üniversitesi Hukuk Fakültesi Dergisi*, Cilt 2, Sayı 2. Ekim 2018, s. 101-133.

7. Husnu Yalduz, Burak Koç, Lokman Kuzu, and Mustafa Turkmen, "An Ultra-Wide Band Low-SAR Flexible Metasurface-Enabled Antenna for WBAN Applications", Applied Physics A, 2019.

   DOI: **10.1007/s00339-019-2902-4**

8. Demet Uluşen, Lokman Kuzu, Banu Ç. Aydın, Yusuf Yurttaş, Barış Çal, Andrii Tsybulnyk, Sergii Neugodnikov, Oleksii Cherkun, and Seda Güllü, "Turkey's First Electric Propulsion System Developed in the very First Electric Propulsion Laboratory: TÜBİTAK UZAY's HALE Project Outcome", *Journal of Aeronautics and Space Technologies*, 2019. Submitted.

9. Fahri Ozturk, Orcun Kiris, Kagan Topalli, and Lokman Kuzu, "Dielectric Characterization using Waveguide method for Antenna Radome Materials for Space Applications", Journal of Engineering, 2019. Submitted.

Books

1. Bir Mühendisten Ortaya Karışık Teknik Yazılar, ISBN: 978-605-68042-9-8, Çimke Yayınevi, Konya, Nisan 2018.

2. Bir Mühendisin Seyahat Notları, ISBN: 978-605-68368-4-8, Çimke Yayınevi, Konya, Haziran 2018.

Popular Science Magazine Articles

1. Pi Sayısı (Number Pi) Poster, TÜBİTAK Bilim ve Teknik Dergisi, Mar, 2019.

2. Uzay Hukuku (Space Law), TÜBİTAK Bilim ve Teknik Dergisi, , Sept. 2019.

Presentations, courses and speechs (selected list)

1. "Building and testing microstrip circuits", Syracuse University, Syracuse, NY, December 2001.

2. "2D and 3D Drawing basics in AutoCAD", Syracuse University, Syracuse, NY, October, 2002.

3. "Tips and Tricks in Microsoft Office," TSCNY Association, Syracuse, NY, August, 2003.

4. "Photo Editing Basics using Adobe Photoshop," Turkish Society of Central New York (TSCNY) Association, Syracuse, NY, May, 2005.

5. "Practical Microwave Oscillator Design using AWR MW Office," Syracuse University, Syracuse, NY, March 2006.

6. "Uydu Teknolojileri ve Türkiye", Mimar Sinan Mühendis ve Mimarlar Birliği, Ankara, 11 Nisan 2009.

7. "Project Management Professional (PMP)", Genç Mimar Sinan Mühendisler Birliği, Ankara, Mayıs 2009.

8. "Uydular ve Türkiye", Mühendis Mimarlar Grubu, Konya, 20 Nisan 2010.

9. "TV Yayın Teknolojileri ve Türkiye", İzmir EMO Bilgi İletişim Teknolojileri ve Toplumsal Yansımaları, 13-14 Mayıs 2011, İzmir, Türkiye.

10. "TV Yayın Teknolojileri", Eskişehir Osman Gazi Üniversitesi Bilişim Günleri 2011, 21-22 Mayıs 2011.

11. "TV ve Radyo Teknolojileri ve Türkiye", Gönüllerde Birlik Vakfı, Ankara, 14 Aralık 2011.

12. "Uydu Teknolojileri ve Türkiye", Mimar Sinan Mühendis ve Mimarlar Birliği İstanbul şubesi, İstanbul, 17 Şubat 2013.

13. Short course on Satellite communications for Türksat Interns, 2-day course, 2011, 2012, 2013.

14. Project Management Professional training, 5-day course, 9-13 November, 2013, İstanbul. This course was taught to Libyan engineers.

15. "Uydu Teknolojileri ve Türkiye", Konya University, Konya, April 22, 2014.

16. Invited Speaker, Astrofest 2016, Uludağ University and TAD foundation, 12-14 August, 2016.

17. Invited Speaker, UHUK 2016 Conference, Kocaeli University, Kocaeli, 28-30 September, 2016.

18. Invited Speaker, AEROEX, Kayseri, Ekim, 2016.

19. Invited Speaker, Turkish Students Association, Washington DC, November 2016.

20. Invited Speaker, Zonguldak, December 2016.

21. Invited Speaker, Bursa Technical University, December 2016.

22. Invited Speaker, Bursa Gözlem Şenliği, September 2017.

23. Invited Speaker, 21. National Astronomy Congress, 3-7 September 2018. Kayseri, Turkey.

24. Invited Speaker, IDEF Defence Fair, 1-3 May, 2019. İstanbul, Turkey.

25. Invited Speaker, TUG Ulusal Gözlem Şenliği, 2019. Bakırlıtepe, Antalya.

LANGUAGES

Native in Turkish, Fluent in English, Intermediate French and Arabic.

PERSONAL

Enjoy reading business books, space related books, soccer, music, amateur photography. Volunteer for charitable events.

MEMBERSHIPS

- Project Management Institute (www.pmi.org)
- Soundview business book (www.summary.com)
- Applied Computational Electromagnetics Society (ACES)
- International Electrical Electronics Engineering (IEEE).

REFERENCES

Available upon request.

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