

THE CURRICULUM VITAE

1. Name and Academic Rank:

Abdülkadir Özcan, Assistant Professor (Electronics)

2. Date, Place of Birth and Marital Status:

July, 07, 1957, Yozgat/TURKEY, married, has a daughter of 25 y.o.

3. Driving License, Passport, Health Status:

Class B (professional) driving license, green passport (no visa required for Schengen countries), no health problem or disability except using glasses.

4. Present Position: Worked as a full time lecturer (Assist.Prof.Dr.)

in Eng'g. Faculty at the Girne American University / CYPRUS between Sept. 20006-July 2010.

Now working as a full time lecturer at Karatay University in Turkey since Sept. 2011.



5. Past Experience:

YEAR:

STATUS:

1984-1996	Studied at the Dept. of Technical Science of Land Military Academy at Ankara/TURKEY, as an instructor, and gave the lectures listed below: <ul style="list-style-type: none">• Basic Electronics I, II and III• Digital Electronics, Microprocessors (Motorola 6809, 68000, Intel 8086)• Telecommunications• Electromagnetic Theory, Microwaves, Antennas&Propagation• Mechanics for Engineers (Statics&Dynamics)• Basic Physics• Material Science
1985-1986	Additionally gave the lectures of the "Mathematical Methods in Physics" at Gazi University, Pure Science of Physics/Turkey.
1992-1996	Performed the Head of Electrical/Electronic Eng'g. Dept.at the Military Academy.
1996-1999	Worked at the Logistics Command of Land Forces/Turkey as the Chief of Industrial Relations.
1999-2000	Was promoted to the rank of Colonel and worked at the General Staff /Turkey as an administrator of military projects.
2000-2002	Worked at the R&D Office of Ministry of Defence/Turkey.
2002-2005	Worked at the Turkish General Staff Electronic Intelligence Department as a Technical Consultant.
2005-2006	Was retired and gave part-time lectures on Physical Electronics at Gazi University, Pure Science of Physics/Turkey.
2006-July 2010	Worked as a full-time s. lecturer (Assist.Prof.Dr.) at the Girne American University / Northern Cyprus and gave the courses of Power Electr., Phys.Electr, Fund. of E.E, Electronic Circuits I and II, and Computer Hardware Design.

Conducted some graduation projects as a supervisor. Besides, became a senate member of the same University.

Sept. 2011- Working as a lecturer in the rank of Assist. Prof. Dr. In Electrical&Electronic&Mechatronic Eng.g. Dept at Karatay University in Turkey and teaching Electronic Devices (Analog), Mechatronic Measurements and Microcontrollers (PIC 16F84, 818, 877).

6. University Training:

<u>Dates Attended:</u>	<u>Institution:</u>	<u>Degree Received:</u>	<u>Field:</u>
1974-1978	Land Military Academy	Lieutenant	Military Scedule &EE
1978-1979	Bosphorus University	Proficiency in English	-
1979-1981	Bosphorus University	B.Sc.	E.E.
1981-1984	Bosphorus University	M.Sc.	E.E.
1985-1992	Gazi University	Ph.D.	Physics

7. Completed Graduate Courses:

- Advanced Mathematics I, II
- Microwaves
- TV Engineering
- Solid State Engineering
- Analog & Digital Filters
- Microprocessors
- Physical Electronics
- Probability Theory
- Network Synthesis

8. Some of the Completed Ph.D. Courses:

- Mathematical Methods in Physics
- Quantum Physics I,II
- Advanced Electromagnetic Theory I,II
- Laser Physics
- Solid State Physics
- Analytical Mechanics
- Computer Organization & Microprocessors.

9. Publications:

- Nagamalai, D., Ozcan, A., Okatan. A.: Empirical Study of Email Security Threats and Countermeasures, ICCSEA-2013, Springer AISC series, vol.1, pp. 731-733, (2013)

- Ozcan, A., Nagamalai, D.: Efficiency Improvement of a-Si:H/ μ c-Si:H Tandem Solar Cells by Adding a-SiO_x:H Layer between Ag Nano Particles and the Active Layer, Advances in Computing and Information Technology, Proc. of the 2nd International Conference on Advances in Computing and Information Technology (ACITY) July 13-14, 2012, Chennai, Springer, vol.2, pp. 289-297, (2012)
- Özcan, A., Zikza, J., Nagamalai, D.: Recent Trends in Wireless and Mobile Networks II, Springer, Berlin (2011)
- Özcan, A., Chaki, N., Nagamalai, D.: Recent Trends in Wireless and Mobile Networks. Springer, Berlin (2010)
- Güngör, V., Özcan, A.: Lasers: A Useful Magic Light. Kıbrıslı Daily Newspaper (05.08.2007)
- Güngör, V., Özcan, A.: Lasers: The All Magic Light. Denge Monthly Issue (Sept.2007)
- Özcan, A.: A General View of Russia's Command, Control, Communication and Information Systems. In: Turkish Military Monthly Issue (2003)
- Özcan, A.: The Fundamentals of IR Night Vision Systems and Military Applications. In: Turkish Land Forces Logistics Monthly (1993)
- Özcan, A.: Ph.D. Thesis: A Microprocessor Controlled Infantry Training Simulator Design Using He-Ne Laser, Gazi University (1992)
- Ozcan, A.: Lecture Notes of Electronics I,II, and III. Land Military School Publishings, Ankara (1989)
- Ozcan, A.: Lecture Notes of Introduction to Microprocessors and Computers. Land Military School Publishings, Ankara (1988)
- Ozcan, A.: M.Sc. Thesis: Controlling of Duplex Lift Systems Using Motorola 6802 Microprocessor Family, Bosphorus University Press (1981)

10. Recent Scientific&Industrial Activities:

- Steering Committee Member of "the 3rd International Conference on Computational Science, Engineering and Information Technology (CCSEIT-2013), Konya, TURKEY, 07-09 June 2013.
- Steering Committee Member of "The Second International Conference on Advances in Computing and Information Technology (ACITY 2012)", 13-15 Tem 2012, Chennai/India" konferansı yürütme komitesi üyesi.
- Steering Committee Member of AIRCCSE.ORG and WiMo 2011: "Conference on Recent Trends in Wireless and Mobile Networks II", Ankara, TURKEY, 26-27 June 2011
- Steering Committee Member of AIRCCSE.ORG and WiMo 2010: "Conference on Recent Trends in Wireless and Mobile Networks", Ankara, TURKEY, 26-28 June 2010.
- Participant to "7th National Gynecology and Obstetric Congress", Girne,TRNC, 14-19 May 2009 (certificated).

- Steering Committee Member of WNSA 2008: "Wireless Networks and Security Applications", June 2008.
- Senate Member of the American University, Girne, TRNC, 2009-2010 educational period.
- Gave two seminars on "The Applications of Lasers in Medicine & Eye Surgery", American University, Girne, TRNC, 22-28 March 2007.
- Participant of the symposium of "Improvements and Applications in Intelligent Systems", Yıldız Technical University, İstanbul, TURKEY, 14-21 July 2004.
- Participant of the symposium of "Applications in Defence Industry", Middle East Technical University, Ankara/TURKEY, June 2001, June 2003.
- Participant of the course of "Unmanned Aerial Vehicles & Military Applications", Von Karman Institute, Brussels, Belgium, September 2000.
- Participant of the course of "Education of Teachers", TUBITAK-TUSSIDE, Gebze/TURKEY, November 2001.
- Still a member of Elect.&Electronic Engineers' Chamber of Turkey.
- Senate member of Girne American University between Sept 2009-July 2010.

11. Foreign Language:

English (Perfect: Gave and still giving all courses in English during the last 10 years), French (intermediate)

12. Educational Honors:

- August, 13, 1984, Certificate of Military Teacher
- September, 21, 1988, Certificate of Collaborating of Academic Planning & Arranging
- July, 12, 1989, Appreciation of Teaching
- August, 17, 1990, Appreciation of Discipline
- October, 25, 1990, Monetary Prize of Education
- March, 7, 1994, Appreciation of Teaching & Management
- June, 15, 1995, Warrant of Badge of Training & Education
- August, 22, 1995, Warrant of Badge of Military Training & Education

13. Key Selection Criteria:

a. I have more than 18 years of educational experience in mostly three different institutions like Turkish Military School (for 12 years), Gazi University Ankara (less than 1 year) and Girne American University North Cyprus (4 years). I well know how to handle, plan and manage educational process for young and multicultural students.

b. I have a full ability and a long term experience of preparing and improving the syllabuses of undergraduate and graduate courses like "Digital Systems, Microcontrollers (PIC 16f84, 818, 877), Analog Electronics (Transistor and IC based circuits like amps, filters, sensors, etc), Material

Science, Mechanical & Electric Physics, Electromagnetic Theory, Laser Theory & Applications (Laser production, modulation using Pockell Kerr cells), Fiber Optics (physics, losses, modulation etc), Fundamentals of Electrical Eng., Physical Electronics (semiconductors, junctions, IC solid state electronics), Electronic Circuits Analysis & Design, Power Electronics, Computer Hardware Design & Microprocessors (MC6809 based circuits) and all future courses.

c. I can supervise and advise the graduate & undergraduate students for their graduation projects by creating new ideas and design skills.

d. Since I have worked at the Turkish Military Staff for more than 25 years, I'm well disciplined to work in hard conditions, limited possibilities and under stress.

e. My industrial experience is fine; since I've worked as project manager for 4 years in military purpose projects like unmanned aerial vehicles, weapon simulation systems, mine detectors, some frequency hopped communication systems and laser projects.

f. I have a great ability about managing and performing lab sessions for related courses.

g. I'm able to handle my own educational and research tasks by effectively using internet and all windows programs like word, excel, powerpoint, etc. I also well know the Assembly lang. of PIC and microprocessors.

h. I can easily create some state of the art and practical graduation projects and make them realized with students. Some of my project topics are:

- * Laser application projects like collimators, modulators like Kerr and Pockell Cells,
- * Solar cell efficiency improvements by refining the coating materials and shape, trying some dopants,
- * Robots with ultrasound, proximity, temperature, pressure and optic sensors, using PICs (16F series), microprocessors (6809 or 8086),
- * Logic circuits design and implementation,
- * All applications related to combinational & sequential digital circuits,
- * Analog projects like equalizers, filters, amplifiers, sound processors etc.

i. I can contribute the decision mechanisms like future educational strategies, preparing curriculum and update the courses depending on needs of technology and industry.

j. Lastly I define myself as an hardworking, eager, curious and responsible learner about science, environment, nature, universe, pollution, animal rights, and especially searching different cultures with a great respect. I always try to find similarities among different cultures and religions.

14. Research Areas & Interests:

a. I have researched the beam quality (scattering, diffraction) of lasers and the beam focusing via collimators, choppers and modulators. Besides, I want to continue to search on the quality improvement of laser modulators such as Kerr and Pockell cells. The effects of laser beam onto the semiconductor materials, laser surface damages, laser damage on skin and especially on eye could be interested in. This area is quite important to set up some regulations and criteria for laser

usage in medicine. Additionally, I want to continue searching on the laser optic communication through fiber optic cables, like the interference measurement, structure refinement etc.

b. The second research area could be increasing the efficiency of solar cell by embedding nano particles (especially Ti, Al, Cu, Se, Ag, PbS ect.) or Zinc crystal grains in the active surface. Those nano particles may increase the number of scattering photons towards the active depletion layer. In addition, deploying surface plasmons on the oxide layer of amorphous Si solar cells would improve the efficiency by increasing the probability of light trapping. Besides, the open circuit voltage (Voc) could be increased by trying different compound host crystals and properly selected dopants. A future improvement with solar cells; I guess; could be to find a way to store the collected energy just under the same cell by the help of built-in MOSFET arrays. A microcontroller may manage the stored energy discharge through cell load. This may reduce energy storage cost and simplify system set up. I may participate a renewable energy or solar energy research group if a possibility would be given.

c. The third topic may be the robotics like electronic, chemical and optical sensors, robot control mechanisms, design and implementation of special purpose robots, developing efficient PIC circuits, etc.

15. Preferred Positions:

- Assistant Professorship in E.E. or Physics (science) as a senior lecturer,
- Administrator , Engineer

16. Address to Contact:

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Phone: 90 3124411799, 90 5555221719

17. References:

- Prof. Dr. Ahmet DENKER, Head of Elect.&Electronic Eng. Dept., İstanbul Bilgi University, ahmetdenker@googlemail.com, Mobile no: 905338705444, 902123115000
- Assist. Prof. Dr. Zafer AĞDELEN; Dean of Eng. Faculty, Girne American University; zagdelen@gau.edu.tr, Mobile no: 905428538289, 903926502000
- Assist. Prof. Dr. Kamil DİMİLİLER; Head of Elect.&Electronic Eng. Dept, Girne American University; kdimililer@gau.edu.tr, Mobile no: 905338655229
- Asist.Prof. Dr. Sadık Ulker, Vice Rector, Girne American University, sulker@gau.edu.tr, Phone: 903926502000
- Mr. Kivanç Özgüven, Graduated student, kivanc86_oz@hotmail.com, Phone: 905307845965

Sincerely Yours,

Dr. Abdulkadir OZCAN