

TO WHOM IT MAY CONCERN (In Care of the Rectorate of U. of Tartu), 04 June 2013

Topic : Job Application of Assist.Prof.Dr. Abdulkadir OZCAN to the post of “Senior Lecturer of Robotics” at the Institute of Technology, University of Tartu

I; Dr. Abdülkadir Özcan; was graduated from the Turkish Land Military Academy, then Bosphorus University in Istanbul/TURKEY (incl. Language Prep. School, B.Sc and M.Sc. in Electrical&Electronic Engineering), and Gazi University in Ankara/TURKEY (incl. Ph.D. in the Pure Sciences of Physics). I worked at the Turkish Land Military Academy for 12 years as an assistant professor, and gave the lectures of Electronics, Electromagnetic Theory & Microwaves, Digital Electronics, Microprocessors (Motorola 6800, Intel 8086 and PIC 16F series), Physics, Theory of Electron Devices, Mechanics for Engineers (Statics, Dynamics), and Materials Science. Then, I was engaged in the R&D Section of the Turkish Ministry of Defense for two years, and worked at the General Staff as a project manager, industrial liaison officer, maintenance commander, and technical consultant. I retired in February 2005 with the rank of colonel.

After that, I gave the course of Physical Electronics at Gazi University in Ankara, for the first semester of 2005-2006. Then, I worked at Girne American University Engineering Faculty in Northern Cyprus; as an assistant professor in Electrical/Electronic Eng. Dept. between Sept. 2006 and July 2010. The university was a multicultural institution having more than 65 different countries' students. I conducted and gave the courses of Fundamentals of E.E., Physical Electronics, Electronic Circuits I and II, Power Electronics and Microprocessors & Computer Hardware Design (6809 and 8086) and supervised many graduation projects as well.

Now, I am working at Karatay University, Konya/TURKEY since 01 Sept 2011 as an Assist.Prof.Dr. in Electronic &Mechatronic Eng. Fac. and teaching the courses like Electronic Circuits, Mechatronic Measurements and PIC Microcontrollers. I think most of my present qualifications and abilities would fit your requirements as I have cited below:

- * I have a B.Sc. and a M.Sc. degree in Electrical/Electronic engineering and a Ph.D. in Physics. So, I can handle all the courses and researches related to both fields; such as digital circuits, microprocessors & microcontrollers, Physics I and II, laser physics, light modulators etc;
- * I'm well experienced in microprocessor & microcontroller circuit design and application from an idea up to implementation. I well know assembly and machine language programming. I also know circuit design using some programs like Circuit Maker, ISIS etc. and I am able to adapt any such programs;
- * My Ph.D. thesis was a simulator design including He-Ne laser, modulator and microprocessor. So, I can apply both physical and electronic skills in combined projects;
- *My research interest basically depends on two topics:
 - a. Laser and optical communication through fiber optics, the propagation improvement methods such as Pockell and Kerr cell modulations, fiber cable coating; and
 - b. the efficiency improvement of photovoltaic solar cells via embedding some nanoparticles called surface plasmon polaritons like silver or gold on top of the oxide layer just on the active layer. Besides I can easily adapt myself to present project groups.
- * I have a teaching experience of more than 18 years (12 years at Turkish Military Academy, 1 year at the Gazi University, 4 years at the Girne American University and 2 years at Karatay University. I also have an industrial experience of 5 years especially involved in project management, quality control and liaison with industry.
- * I can offer, design, prepare and conduct new courses, labs and graduation projects to improve the curriculum of your university in both fields;
- * I am quite familiar with working in a multicultural institution; I studied your educational goals as well as your deep culture, so I can easily adapt myself to your country and educational system.
- * I'm well disciplined in working with hard and limited conditions and in any research group;
- * I think I well know all steps of managing projects beginning from an idea up to realization, I feel I can contribute the project and research portfolio of the institution by carrying new topics.

As a result, I would like to apply to the “Senior Lecturer of Robotics” at your institution; if I am supposed to fulfill the requirements. My CV, publication list, B.Sc., M.Sc. and Ph.D. diplomas, research agenda and outline of action plan, passport copy and three recommendation letters are attached. You may kindly keep my CV for future opportunities. The contact address is cited below.

Yours Sincerely,

Dr. Abdülkadir ÖZCAN

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