

# CAN KÜLTÜR, Ph.D.

**Year of Birth** : 1974  
**Country** : Turkey  
**Marital status** : Married

**Software Engineer**  
**Instructional Technologist**  
**Instructor in Higher Education**  
**Entrepreneur**



## PROFESSIONAL EXPERIENCE

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### Carnegie Mellon University

Jun 2015 – Aug 2015

#### Visiting Lecturer, Department of Computer Science

- “Principles of Computing” course 2014-2015 Summer-2

### Rose-Hulman Institute of Technology

Aug 2014 – May 2015

#### Visiting Associate Professor, Department of Software Engineering and Computer Science

- “Senior Capstone Project” course (supervised 10 teams for 3 quarters) 2014-2015 Academic year
- “Computing in a global society” course 2014-2015 Fall quarter
- “Human computer Interaction” course 2014-2015 Winter quarter
- “Introduction to Database Systems” course 2014-2015 Spring quarter
- “Independent Study” - Multimedia design & development 2014-2015 Spring quarter

### C2BT Information Technologies Inc.

Jun 2012 – ...

#### Senior partner / Founder

Entrepreneur and partner of the start-up company (C2BT Information Technologies) granted by the Techno-Entrepreneurship program of the Turkish Ministry of Science, Industry and Technology. This grant is given to selected innovative, technology based ideas having strong R&D components. Main project is design and development of a personal vocabulary learning environment.

### Bilkent University

Sep 2006 – ...

**Vice chair / Instructor** Dept. of Computer and Instructional Technology Teacher Edu. (CTE)  
**Unit manager** Bilkent Educational Technology Support Unit (BETS)  
**Past member of the board** Voc. School of Computer Technology and Office Management

#### Computer science related courses given

1. Human Computer Interaction
2. Multimedia Design and Development
3. Project Management and Development
4. Introduction to Programming
5. International Term Project
6. Information Ethics and Security
7. User Interface Design and Development

### Instructional technology related courses given

1. Instructional Design
2. Programming for Education
3. Material Design and Development in Education

### **Committees, Institutional activities and other Administrative Responsibilities**

- **Strategic Planning – Teaching Learning Subcommittee**, (Mar – Jul 2012): Active participation in producing a white paper to support the development of the strategic plan of Bilkent University. Personally focused on and documented the instructional technology integration mechanisms, organizations and trends.
- **Bilkent Youth Academy, How to train your robot** (Jun 21, 2012): Organization and development of a learning activity in order to introduce the computer programming logic to K12 students in a sports center setting.
- **Curriculum development**: Both for BS and MS programs of the CTE Department
- **University library representative** of the CTE Department

### **Responsibilities for Educational Technology Support Unit**

- Administrative policies and settings for the Course Management System (Moodle).
- Faculty development activities (workshops, roundtable, and online courses)
- System administration support for Course Management Systems (CMS)
  - Integration decisions (with student information management system)
  - Providing system administration support and consultancy for CMS (Moodle) systems used in Bilkent affiliated high schools (3 schools in Ankara and Erzurum)
- CMS user support and development of relevant online support mechanisms
- Organization of the Bilkent Moodle web site (including tutorials)
- Responding to other project/service/consultancy requests expected from BETS unit

### **Consultancy, External Projects and Reports**

- **MaxiVoca** 2012 – 2013  
Design and development of e-learning software (Personal Vocabulary Learning Environment)
- **User interface design consultancy and expert evaluation** 2011  
Consultancy on the user interfaces of a software project developed by Softeb Software and Technology Inc. for the “Crime Analysis Center”.
- **Software design consultancy** 2011  
Consultancy given to a start-up company (in terms of HCI and database design) for their new software project about furniture production management
- **bilgimikoruyorum.org.tr** (*means “Protecting My Information”*) 2009 – 2011  
An e-learning project aimed to increase information security awareness of the public. This website is hosted by the Center of Research for Advanced Technologies of Informatics and Information Security (BİLGEM) which is a department of The Scientific and Technological Research Council of Turkey (TÜBİTAK).  
This project received the award for being the best 3<sup>rd</sup> instructional site (“2012 Informatics Services” awards given by the Turkish Association of Computation).

Roles and responsibilities taken in this project were:

- Instructional design and content management of the project
- Consultancy and e-learning project management support
- Scenario development of interactive elements
- Usability tests through the prototype of the project
- Architectural design of the technical and website infrastructure

• **Mobile device user interface design evaluation** 2007

Consultancy and expert evaluation of the user interfaces of two different size mobile devices used by Turkish National Police.

- Analysis of the current situation and the developed software
- Preparation of an evaluation report including problems and suggestions

**Turkish Armed Forces / Turkish General Staff** Aug 2005 – Jul 2006

Worked as a project officer on Internet security related topics

**Meteksan IT Group** May 2002 – Jul 2005

**Project Manager, Mobilsoft Inc.** May 2002 – Feb 2003

Responsible for the following two projects and a team of 8 members:

- **Distance Turkish Learning Center:** Starting from the scratch, managed the analysis, design, development, and implementation phases of the project which was developed in collaboration with a university.
- **Egitim.com web portal** (means education.com): With the huge size of content and 7 different targeted user groups, successfully migrated the project to a more dynamic infrastructure. Started and completed usability studies and revised the update mechanisms of the website. These approaches resulted in a dynamic portal management system.

**Distance Education Group Manager, Mobilsoft Inc.** Feb 2003 – Dec 2003

Responsible for distance education infrastructures and projects:

- **Learning, Portal and Content management systems:** Improvement of existing custom made learning management system which resulted in a learning content management system.
- **Bilkent University - Virtual Campus Project:** An online course management system implementation. New special modules are designed, developed and implemented. Integration with student information system had been arranged. Later, this web application is redesigned and developed with newer technology.
- **Web portal projects:** Presales and project management activities of web portal projects such as "European and Mediterranean Archery Union", "Turkish general directorate of civil registration and nationality", and "Turkish Archery Federation".

**Instructional Systems R&D Manager, Mobilsoft Inc.** Dec 2003 – Mar 2005

Responsible for R&D Projects with a focus on Instructional Systems Design:

- **Learning objects development and publication platform:** A project to support SCORM standards and data management especially in companies producing electronic content.

- **Bilgiburada.com:** Project name means “informationhere.com”. Managed the design, development and implementation of a platform to provide an e-learning marketplace and services by Turkish Telecom - Internet Data Center.
- **A generic platform for multilingual distance language learning, which provides method, content, and tools inside:** Instructional systems design and development of a detailed project plan for this project. By using these plans and design, developed and launched by another company.

### **Distance Education Group Manager, Meteksan System, Inc.**

Mar 2005 – Jul 2005

Projects focused on distance education, web portals and content management systems:

- **A new product design** based on the integration of three existing products (learning management, content management and portal management systems).
- **Web portal projects:** Management, pre-sale and post-sale activities for the projects (public and private sector companies) like TEDAŞ (Turkish Electricity Distribution Company) and Doğadan.

### **Monad Software and Consultancy**

Jan 2000 – May 2002

**Software Engineer:** Responsible for the analysis, design, development & implementation of systems such as the ones listed below:

- Medical information systems
- Inventory & purchasing modules of a hospital information management system
- Surgery operation information management module
- IVF Patient information system
- Tissue information management system

### **Barmek Electronics Trade & Industry**

Nov 1998 – Dec 2000

**R & D Engineer:** Responsible for the analysis, design & development phases of the systems developed. These systems include:

- Energy consumption information management system
- Integration of electronic meters and IMS by using smart card technology

### **Bilgi Yönetim Sistemleri Inc.**

Sep 1996 – Oct 1998

**Software Engineer:** Responsible for the analysis, design, development & implementation of the systems listed below:

- Worked on the different modules of the “Hospital Information System”
- Specialized on the “inventory information system” and “purchasing system”
- Providing on-the-site training and support to a university and private hospitals
- Maintenance and database optimization tasks

### **TÜBİTAK Bilten Multimedia Lab.**

Jan.1996 – Sep.1996

**Part time programmer**

- Development of an educational computer game using a compiler named as VAGE.

## EDUCATION

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### **PhD: Dept. of Computer Education and Instructional Technologies**

Middle East Technical University, Ankara

2001 – 2009

**Thesis:** “Factors Affecting Faculty Intention to Use Course Management Systems in a Private University”. [Full Text](#)

### **MS: Dept. of Computer Education and Instructional Technologies**

Middle East Technical University, Ankara

1997 – 2001

**Thesis:** Perceived effectiveness of a computer based drill program on graduate students’ selection of precise statistical technique in an introductory research method course: A case study

### **BS: Department of Computer Engineering**

Middle East Technical University, Ankara

1991 – 1996

## PUBLICATIONS

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- Kultur, C., & Yazici. C., (2014). Adoption, Diffusion and Implementation of Course Management Systems: A Faculty Focus. In A. Benson & A. Whitworth (Eds), Research on Course Management Systems in Higher Education, Perspectives in Instructional Technology and Distance Education Series. Information Age Publishers, (In Press)
- Yazici. C. & Kultur, C., (2013). Medya mı Yöntem mi: Bitmeyen tartışma. (means Media or Method: Never-ending discussion). In K. Cagiltay. & Y. Goktas (Eds), Öğretim Teknolojilerinin temelleri: Teoriler, Araştırmalar, Eğilimler (means The fundamentals of instructional technology: Theories, Research, Trends.) (pp. 41-57), Pegem Akademi, Ankara, TURKEY
- H. Bernáld, A. Cajander, M. Daniels, C. Kultur, A. Löfström, R. McDermott, L. Russell-Dag, “Intercultural Competence in Global Collaboration Courses in Computer Engineering” in the Proceedings of the Fourth International Conference on Applied Human Factors and Ergonomics (AHFE) Conference, 351–361, 21-25 July 2012
- Cajander, Å., Daniels, M., Kultur, C., Russell, L., and Laxer, C. (2012) “Managing International Student Collaborations: An Experience Report”, in the Proceedings of ASEE/IEEE 2012 Frontiers in Education Conference, 355-360, Seattle, USA, 3-6 Oct 2012.
- Kultur, C., and Yıldırım, S. (2012) “What Affects Faculty to Start Using a Course Management System”, in the Proceedings of IV. International Future-Learning Conference on Innovations in Learning for the Future 2012: e-Learning, 439-463, Istanbul, TURKEY, 14-16 Nov 2012.
- Yazici, C., Kultur, C. (2011). “Spicing Up Teaching with Forums: An Online Workshop for Faculty”. in T. Bastiaens & M. Ebner (Eds.), Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2011 (pp. 2840-2843). Chesapeake, VA: AACE.  
<http://www.editlib.org/p/38264>.
- Gökçe, A. Gencer, Kultur, C. (2011). “An e-learning site: Information Security Awareness”, Cyber Defence Symposium (Siber Savunma Sempozyumu), 24-25 Mayıs 2011 (pp 111-119), İstanbul, Türkiye.

- Kültür C., (2009). PhD Thesis. "Factors affecting faculty intention to use course management systems in a private university". METU, Ankara, Turkey. [Full Text](#)
- Kültür C., (2009). Poster, article. "Keeping the pace in CS-1 through the use of CMS". ACM SIGCSE Bulletin 41(3), 398. <http://dl.acm.org/citation.cfm?id=1563040>
- Kültür C., Veryeri Alaca, I., (2009). Poster, article. "Fine-arts perspective in user interface design through the use of CMS". ACM SIGCSE Bulletin 41(3), 386. <http://dl.acm.org/citation.cfm?id=1563028>
- Kültür C., Williams, E. (2008). "Guidelines for Using Blended Learning in your Courses". Ankara, Turkey. <http://www.bilkent.edu.tr/~kultur/blguide/>
- Kultur C., Oytun E., Cagiltay K., Ozden M.Y., Kucuk M.E. (2004). "Moving Toward SCORM Compliant Content Production at Educational Software Company: Technical and Administrative Challenges". 27th Annual proceedings for 2004 National Convention of the Association for Educational Communications and Technology. Chicago, USA [Full text in ERIC](#)
- Kültür C., Albayrak M., Oytun E., Tonguç G. (2003). "E-content production and importance of procedures in web based education". III. International Educational Technology Conference & Fair. Gazimağusa - Turkish Republic of Northern Cyprus. <http://www.iet-c.net/publications/ietc2003.pdf>
- Kültür C., (2001). Master of Science Thesis. "Perceived effectiveness of a computer based drill program on graduate students' selection of precise statistical technique in an introductory research method course: A case study". Ankara, Turkey.

## SEMINARS, WORKSHOPS, LECTURES GIVEN

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### Seminars and Lectures:

- **Human Factors and Software Design:** Bluefield State College, WV, USA Feb 26, 2015
- **Life in Turkey:** Princeton Senior High School, WV, USA Feb 26, 2015
- **Human Factors and Software Design:** Concord University, Athens, WV, USA Feb 27, 2015
- **Computer Science Education: Is it the future?** Seminar, Middle East Technical University, Campus Technology Days Fair, Ankara, Turkey May 31, 2013
- **The future is about to come. Are we ready?** Seminar, Hacettepe University, Faculty of Medicine, Department of Child and Adolescent Psychiatry (A seminar about the trends in teaching-learning processes, 21st century skills and computational thinking). Nov 23, 2012
- **Instructional Tech. Trends and Social media in Classroom,** Seminar, Jun 11, 2012, Bilkent
- **Instructional Technology Trends,** Seminar, Bilkent University May 17, 2012
- **Project management:** 2-hour lecture (Master level) Uppsala University Mar 2011, Sweden
- **Preparing effective presentation by PowerPoint:** 3-hour seminar for administrators and specialists working at the Central Bank of the Republic of Turkey. Sep, 2010 and Feb, 2011
- **Being professional and business ethics:** 3-hour lectures for Middle East Technical University, CEIT department 4<sup>th</sup> year students. 2007 to 2009
- **Moodle CMS: Administration experiences:** 2 half-day training and consultancy to officers of the Education Directorate of Turkish Armed Forces (TSK - EDOK) Jun 2008
- **Instructional Technology:** Bilkent University - CTE department, 2007

**Moodle related workshops and activities:** In collaboration with colleagues, designed and implemented the activities below for faculty development purposes: 2007 – 2014

- "Moodle Basics" workshop (more than 40 times - 4 hours each)
- "BETS Interactions I: Spicing up your teaching with forums" Nov, 2010 and Feb, 2012 (offered 2 times each lasting 3 weeks as a blended course)
- "Moodle Forums and Using Forums" (1 hour seminar)

- Roundtable on Moodle database, glossary, wiki (1 hour)
- "Sharing experiences of using Moodle" seminar (1 hour, with 6 colleagues)
- "Moodle Blocks Web/Text page and Directories" workshop (4 hours)
- "Moodle Forums" workshop (4 hours)
- "Moodle Assignments" workshop (4 hours)
- "Moodle Glossary, Choice, and Wiki" workshop (Twice, 4 hours)
- "Moodle Questionnaire" workshop (4 hours)
- "Moodle Quiz" workshop (4 hours)
- "Moodle - Course Design" workshop (4 hours)

**Other faculty development workshops:**

- 4-week workshop, Effective use of spreadsheet customized for ESL teachers, 2014
- 3-week workshop, Effective use of spreadsheet customized for Student Affairs Dept., May 2012
- 3-week workshop, Effective use of spreadsheet customized for the administrative staff of the Faculty of Economics, Administrative and Social Sciences Dec 2011

## **PROFESSIONAL COLLABORATIVE WORK**

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**International collaboration (Rose-Hulman Inst. of Tech. – Uppsala Univ.- Gannon Univ.)** Fall 2014

In collaboration with Uppsala and Gannon universities, co-teach in the "Computing in a Global Society (IT in Society)" course, which focuses on a problem brought by a client from Sweden.

**Erasmus Faculty Exchange (Uppsala University, Sweden)**

- Worked together on "open ended collaborative projects" topic and research area. Dec 2012
- Contributed to a master level course offered by the HCI department 14 –18 Mar 2011

**International collaboration (Bilkent University - Rose-Hulman Institute of Technology)** Spring 2011

In collaboration with Rose-Hulman Institute of Technology, supervised and organized the "International Term Project" course, which includes real life problems given by two clients (International Children Center and Unicef-Turkish National Committee)

**Interdisciplinary collaboration activities (Dept. of Fine Arts and Graphical Design)** 2008 - 2010

Starting from 2008, organized different activities with faculty from Department of Fine Arts and Department of Graphic Design in order to promote interdisciplinary studies of the students

**Collaboration with Industry (Robit Technology)** Fall 2010

In collaboration with Robit Technology, in the "term project" course, supervised students who developed a robot (to teach computer programming) and a device (which is connected to computers) in order to teach selected concepts of physics and mathematics.

## **CONFERENCE AND SEMINAR ORGANIZATIONS**

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**ITICSE2010:** The 15th Annual Conference on Innovation and Technology in Computer Science Education (International Conference of ACM – SIGCSE) Jun 2010

- Program committee member,
- Local arrangements coordinator
- Design and development of conference web site infrastructure

## ATTENDED TRAININGS AND CERTIFICATES

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- Several teaching seminars and workshops organized by the provost office 2006 - ...
- "MoreMotion Advanced Suite" by Mor Yazılım Jun 2007
- "CMMI – Basic Concepts" by Bilgi Grubu Mar 2005
- "Administering a MS SQL Server 2000 Database" by Microsoft Jul 2004
- "Programming a MS SQL Server 2000 Database" by Microsoft Jul 2004
- "Project Management Methodologies and Implementations at IT/IS" by İstanbul Kurumsal Gelişim Danışmanlık ve Eğitim Hizmetleri Mar 2004
- "Advanced level project management by MS Project 2003 / Web Access" by İstanbul Kurumsal Gelişim Danışmanlık ve Eğitim Hizmetleri Jul 2004
- "Developing MS.NET App. For windows (Visual C#)" by Microsoft Jun 2003
- "Building COM+ App. using MS.NET Ent. Services" by Microsoft Jun 2003
- "Developing web applications by Visual Studio .NET" by Infopark Jun 2003
- "Developing applications using ado.net for ms sql server 2000" by Infopark Jun 2003
- "Programming with C#.net" by Infopark May 2003
- "Leadership concept and personal leadership" by Adisa Consultancy Sep 2002
- "Direct leadership" by Adisa Consultancy Oct 2002

## PROFESSIONAL MEMBERSHIPS

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- ACM SIGCSE-Bilkent Professional Chapter, Chair. 2012 - 2014
- ACM Special Interest Group on Computer Science Education (SIGCSE) 2007 - ...
- Association for Educational Communications and Technology (AECT) 2004 - 2006
- Türkiye Bilişim Derneği (TBD) (Turkish Association of Computation)
- Türkiye Bilişim Vakfı (TBV)

## DISTINCTIONS AND AWARDS

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- ACM Senior Member 2012 - ...
- Fulbright Outreach Lecture Fund Feb. 2015
- Fulbright Scholar-in-Residence program 2014 - 2015
- ERASMUS, Teaching Mobility Grant Dec. 2012
- ERASMUS, Teaching Mobility Grant Mar. 2011

## FOREIGN LANGUAGES

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- **English:** Fluent in speaking and writing  
2006-TOEFL-CBT Score: 260  
2003-ÜDS (Inter-Universities Foreign Language Proficiency Exam) Score: 80

## PERSONAL INTERESTS AND HOBBIES

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- Oil painting
- Reading science fiction, graphic novels and comics