

SUMMARY VITA – Neslihan Alp, Ph.D., P.E.

*UC Foundation Professor and Assistant Dean for Graduate Studies and Research
Department Head of Engineering Management and Technology*

Years on Faculty: 12 (original appointment 08/01/99)

Degrees

Istanbul Technical University	Engineering Management	B.S., 1989
Istanbul Technical University	Industrial Engineering	M.S., 1993
University of Missouri-Rolla	Engineering Management	Ph.D., 1996

Other Related Experience

State Registered: Tennessee (2003)

Post Doctorate Fellow (1997-1999) – University of Missouri-Rolla, Engineering Management Department
Graduate Teaching and Research Assistant (1994-1996) – University of Missouri-Rolla, Engineering Management Department.

Instructor (1992-1994) – Istanbul Technical University, Engineering Management Division, College of Engineering Management & Industrial Engineering, Istanbul, Turkey.

Industrial Engineer (1990-1992) – Caterpillar Inc., Istanbul, Turkey.

Consulting and Patents

- *Energy Protection Agency (EPA) (Summer 2010)* – Develop a Plan for the Effective Emission Control in Tennessee according to the Clean Air Act Policy.
- *Kenco Logistics Services, Chattanooga, TN (Summer 2007)* – Developed a layout design for a new product line.
- *Card Monroe Co., Chattanooga, TN (Summer 2007)* – Developed a bar coding system.
- *AWP LLP, Tullahoma, TN (Spring 2006)* – Developed a layout plan for their new facility.
- *Safety Apparel, Chattanooga, TN (Spring 2006)* – Developed and implemented an MRP and bar coding system.
- *Paladin Co., Chattanooga, TN (Fall 2005)* – Organized Lean Seminar.
- *Safety Apparel, Chattanooga, TN (Fall 2005)* – Developed a layout design for their existing and future facilities.
- *C & D Technologies, Dunlap, TN (Fall 2005)* – Developed work instructions for their new product line.
- *Cannon Equipment, Chattanooga, TN (Spring 2005)* – Developed a layout design.
- *Kingdom Signs Inc., Chattanooga, TN (Spring 2005)* – Developed the process flow for a new product line.
- *Filter Specialties, Inc., Chattanooga, TN (Fall 2004)* – Developed a plan for their quality audit.
- *Fulmarque Inc., Cleveland, TN (Fall 2004)* – Developed a plan for their quality audit.
- *E-Spin Co., Chattanooga, TN (Spring 2003)* – Designed a new plant layout for their new facility.
- *McKee Foods, Chattanooga, TN (Spring 2003)* – Developed work instructions for their new product line.
- *Hope Industries, Madisonville, TN (Fall 2002)* – Developed an MRP and Bar Coding System for the production and inventory areas.
- *InterSign Corp., Chattanooga, TN (Fall 2002)* – Created a cash flow diagram to calculate a detailed payback period of a new printing machine.
- *Safety Apparel, Chattanooga, TN (Spring 2002)* – Developed a new layout design for the manufacturing area.
- *Ring Can Corp., Chattanooga, TN (Fall 2001)* – Implemented a quality control and usage of SPC (Statistical Process Control) software.
- *Magister Corp., Chattanooga, TN (Spring 2001)* – Created a new process flow diagram to minimize the load of work-in-process (WIP) and the lead time.
- *Tennessee Enterprises Inc., Chattanooga, TN (Spring 2000)* – Developed a new plan for the inventory control using the kanban system.
- *Silvey Metal Products. Co., Chattanooga, TN (Fall 1999)* – Created a new layout design for the new manufacturing facility.

Recent Publications

1. *Alexander Saputa, M.S., Frank Jones, Ph.D., P.E., Neslihan Alp, Ph.D., P.E., and Tricia Thomas, Ph.D.,* "From Well to Wheel: A Comprehensive Comparison of Traditional and Hybrid Electrical Vehicles," 32nd American Society for Engineering Management (ASEM) Conference Proceedings, Lubbock, TX, October 19-22, 2011.
2. *Neslihan Alp, Ph.D., P.E. and Roy Mathai, M.S.,* "Smart Grid: A New Approach to Advanced Power Grid and Energy Savings," 31st American Society for Engineering Management (ASEM) Conference Proceedings, Rogers, AR, October 13-16, 2010.
3. *Neslihan Alp, Ph.D., P.E. and Desmond Raymond, M.S.,* "Application of Engineering Management Principles to Human Factors Aspect of Nuclear Control Room Design," 31st American Society for Engineering Management (ASEM) Conference Proceedings, Rogers, AR, October 13-16, 2010.
4. *Neslihan Alp, Ph.D., P.E. and Tim McGhee, M.S.,* "Meting the Needs of the Construction Industry," 30th American Society for Engineering Management (ASEM) National Conference Proceedings, Springfield, MO, October 14-17, 2009.
5. *Neslihan Alp, Ph.D., P.E. and Guy Bony, M.S.,* "Improving Teller Referral System," 30th American Society for Engineering Management (ASEM) National Conference Proceedings, Springfield, MO, October 14-17, 2009.
6. *James V. Ware, Jr., P.E., Neslihan Alp, Ph.D., P.E., Ronald B. Cox, M.B.A., Ph.D., P.E., Gary H. McDonald, Ph.D., P.E., and Robert N. Dreyer, M.S.E.E.,* "A Continuous Improvement Plan for the Engineering Technology Program in a Community College," 28th American Society for Engineering Management (ASEM) National Conference Proceedings, Chattanooga, TN, November 7-10, 2007.
7. *Neslihan Alp, Ph.D., P.E., Frank Jones, Ph.D., P.E., James Hiestand, Ph.D., P.E., and Robert Bailey, Ph.D., P.E.,* "Conversion Rate Optimization in Bioreactors Using the Taguchi Method," published abstract at the Institute of Industrial Engineers (IIE) Annual Conference, May 2007, Nashville, TN.
8. *Neslihan Alp, Ph.D., P.E., Ronald Bailey, Ph.D., P.E., and David Pittenger, Ph.D.,* "A Regression Model to Predict the Graduation Rate," presented at the ASEE-SE National Conference, April 2007, Louisville, KY.
9. *Neslihan Alp, Ph.D., P.E.,* "Systems Improvements in Healthcare," published and presented at the American Society of Engineering Management (ASEM) Conference, October 2006, Huntsville, AL.
10. *Roger Jones, M.D. and Neslihan Alp, Ph.D., P.E.,* "Collaborative Research in Patient Safety," Panelists at UT Nuts and Bolts Clinical Research Symposium, September 29, 2006, Chattanooga, TN.
11. *Neslihan Alp, Ph.D., P.E., Frank Jones, Ph.D., P.E., James Hiestand, Ph.D., P.E., and Robert Bailey, Ph.D., P.E.,* "Use of Taguchi Methods to Optimize the Design of Bioreactors," Institute of Industrial Engineers (IIE) Annual 2006 Conference Proceedings, Orlando, FL, May 20-24, 2006.
12. *Roger Jones, M.D., Mukta Panda, M.D., and Neslihan Alp, Ph.D., P.E.,* "RAISING Standards for Patient Safety: Residents Actively Identifying Systems Improvements to Achieve National Goals," the SGIM 28th Annual Meeting, April 26-29, 2006, in Los Angeles, California.
13. *Neslihan Alp, Ph.D., P.E., Ed McMahon, Ph.D., P.E., Cecelia Wigal, Ph.D., P.E., Norman Desbiens, M.D., Roger Jones, M.D., Mukta Panda, M.D., Asma Khan, M.D., and Sonya Reid,* "Residents Actively Identifying System Improvements for Patient Safety", Institute of Industrial Engineers (IIE), Society of Health Systems (SHS) 2006 Conference Proceedings, San Diego, CA, February 10-12, 2006.
14. *Neslihan Alp, Ph.D., P.E.,* "The Application of Web-Based Projects and Discussion Boards in an Online Engineering Management Program", 25th American Society for Engineering Management (ASEM) National Conference Proceedings, Alexandria, VA, October 20-23, 2004.
15. *Neslihan Alp, Ph.D., P.E., Prem Chopra, Ph.D., and Virgil Thomason, Ph.D., P.E.,* "Transformation of an Engineering Management Program to Encompass Distance Learning Needs", Information Technology Based Higher Education and Training (ITHET) Conference Proceedings, Turkey, May 31-June 02, 2004.
16. *Elbert Z. Nassey and Neslihan Alp, Ph.D., P.E.,* "The Implementation of Lean Method and Value Analysis in a Layout Design", Institute of Industrial Engineers (IIE) Conference Proceedings, Houston, TX, May 15-18, 2004.
17. *Prem Chopra, Ph.D., Neslihan Alp, Ph.D., and Virgil Thomason, Ph.D., P.E.,* "Micro eCourses to Supplement a Distant Learning Program," 24th American Society for Engineering Management (ASEM) National Conference Proceedings, October 15-18, 2003.
18. *Neslihan Alp, Ph.D.,* "Implementation of the Lean Model at the University," 31st ICC & IE Conference (International Conference of Computers and Industrial Engineering), February 2003, San Francisco, CA.

19. *Neslihan Alp, Ph.D.* ; “Improving Six-Sigma Programs in Manufacturing Facilities,” 31st ICC & IE Conference (International Conference of Computers and Industrial Engineering), February 2003, San Francisco, CA.
20. *Alp, Neslihan*, “Implementation of the Lean Model at the University”, Computers and Industrial Engineering (C&IE) Journal, Submitted, December 2002.
21. *Alp, Neslihan*, “Improving Six-Sigma Programs in Manufacturing Facilities”, Computers and Industrial Engineering (C&IE) Journal, Submitted, September 2002.
22. *Alp, Neslihan and Yaworsky, Mike*, “Roadblocks in the Six-Sigma Process”, Paper accepted for presentation at and publication in the proceedings of the 2003 American Society for Engineering Education Annual Conference, June 21-24, 2003.
23. *Alp, Neslihan*, “Web-Based Class Projects”, Southeastern Section of the American Society for Engineering Education Conference Proceedings, April 6-8, 2003.
24. *Alp, Neslihan*, “The Lean Education Model”, 23rd American Society for Engineering Management (ASEM) Conference Proceedings, October 2-5, 2002, pp. 110-116.
25. *Alp, Neslihan and Yaworsky, Mike*, “The Comparison of the Six-Sigma Certification Process with the Motivational Theories”, 23rd American Society for Engineering Management (ASEM) Conference Proceedings, October 2-5, 2002, pp. 327-333.
26. *Alp, Neslihan*, “The Lean Education System at the University of Tennessee at Chattanooga”, 22nd American Society for Engineering Management (ASEM) Conference Proceedings, October 11-13, 2001, pp. 355-360.
27. *Alp, Neslihan, Johnstone, John D., Kazemersky, Phil*, “Training and Impact on Manufacturing for Project Management of New Job Launches”, 22nd American Society for Engineering Management (ASEM) National Conference Proceedings, October 11-13, 2001, pp. 47-51.

Scientific and Professional Society Memberships

Vice President– Institute of Industrial Engineers (IIE) Chattanooga Chapter

Honored Lifetime Member – United Who’s Who

Honored Member – Alpha Iota Delta, International Honor Society of Decision Sciences and Information Systems

Member – American Society of Engineering Education (ASEE), American Society of Engineering Management (ASEM), Institute of Industrial Engineers (IIE), American Society for Quality (ASQ), Institute of Electrical Engineering Education, Engineering Management Division (IEEE-EM Division), Council of Undergraduate Research (CUR)

Faculty Advisor of the Institute of Industrial Engineers (IIE) Student Chapter (2003-2006)

Faculty Advisor of Horizon (UTC Engineering and Science Festival organized by UTC Engineering Student Organizations) (2003-2004)

Honors and Awards

- UTC Graduate Faculty 2000-present
- UTC Cole Outstanding Engineering Teaching Award, 2009
- Elected to the UTC Alpha Society, 2008
- UC Foundation Instructional Excellence Award, 2008
- Institute of Industrial Engineers Chapter Recognition Gold Award, 2005
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- UTC Cole Outstanding Engineering Teaching Award, 2003
- UC Foundation Instructional Excellence Award, 2003
- UC Foundation Instructional Excellence Award , 2002
- Engineering Research Award, 2002
- UC Foundation Professorship, 2001
- Exceptional Merit Award, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, and 2009
- The Teaching, Learning, and Technology Faculty Fellowship, 2001
- UC Faculty Development Award, 2000, 2002, 2003, 2006, 2007, 2009, 2010, 2011

- Post Doctorate Fellowship (University of Missouri-Rolla, 1997-199)
- Honor Society Award from Alpha Iota Delta, International Honor Society of Decision Sciences and Information Systems, (University of Missouri-Rolla, 1996)

Institutional Service in the Last Five Years (committee assignments, etc.)

UTC Graduate Council, 2002-present
 UTC Graduate Council, Graduate Faculty Sub-Committee, 2004-Present
 UTC Graduate Council Grade Appeal Committee, 2003-2005
 UTC Graduate Council Petitions Committee, 2003-2005
 UTC Petitions Committee 2010-11
 UTC Faculty Banquet Committee 2010-11
 UTC Strategic Review Committee 2008-2009
 UTC Strategic Planning Sub-Committee 2007-2009
 UTC International Students Committee, 2005-2008
 UTC Classroom Technology Committee, 2004-2006
 UTC Faculty Development Grant Committee, 2004-2005
 UTC Curriculum Committee, 2001-2003
 UTC Metropolitan College Advisory Committee, 2002-2003
 UTC Distance Learning Sub-Committee, 2002-2003
 UTC Curriculum Committee, 2000-2003
 UTC College of Engineering and Computer Science Graduate Committee, 2000-present
 UTC Engineering Petitions Committee, 2000-2004
 UTC ABET EC2000 Accreditation Industrial Engineering Sub-Committee, 2001-2003
 UTC ABET EC2000 Accreditation Fundamentals Engineering Sub-Committee, 2001-2002

Professional Service in the Last Five Years

Architecture, Construction, and Engineering (ACE) Mentorship Executive Board Member
 Building and Construction Institute of South (BCIS) Advisory Board Member
 Vice President of Institute of Industrial Engineers (IIE) Chattanooga Chapter
 Reviewer for papers for the American Society for Engineering Management (ASEM) National Conference
 Reviewer for papers for the ASEE National Conference: Engineering Management Division
 Session Chair at the International Conference of Computers and Industrial Engineering (ICIE)
 Session Chair at the American Society for Engineering Management (ASEM) Conference
 Reviewer for UTC Faculty Fellows applicants
 Panelist at the UT Clinical Research Symposium
 Panelist at UTC Graduate School Thesis Workshop
 Panelist at the Institute of Public Service (IPS) Annual Conference, Tennessee Manufacturing Extension Program

Professional Development Activities in the Last Five Years

Served as a panelist at the NSF Graduate Research Fellowship Program (GRFP), 2009, 2010
 Attended to the Linden Washington Program, Washington D.C., 2009, 2010
 Attended to the 32nd American Society for Engineering Management Conference, Lubbock, TX, 2011
 Attended to the 31st American Society for Engineering Management Conference, Rogers, AR, 2010
 Attended to the 30th American Society for Engineering Management Conference, Springfield, MO, 2009
 Attended to the 29th American Society for Engineering Management Conference, West Point, NY, 2008
 Attended to the 28th American Society for Engineering Management Conference, Chattanooga, TN, 2007
 Attended to the 27th American Society for Engineering Management Conference, Huntsville, AL, 2006
 Attended to the Linden International Recruitment, India, 2007, 2008, and 2009
 Attended to the Institute of Industrial Engineers National Conference, Orlando, FL, 2006
 Attended to the World Education Services (WES) Workshop, Chicago, IL, 2006
 Attended to the Society of Health Systems (SHS) Conference, San Diego, CA, 2006