

MERVE CELEN

2502 Nueces St. Apt 207
Austin, TX 78705

512-919-9556
mervecelen@gmail.com

EDUCATION:

Ph.D., Operations Research and Industrial Engineering, May 2014

The University of Texas at Austin

Overall GPA: 3.88/4.00

Thesis Title: Joint Maintenance and Production Operations Decision Making in Flexible Manufacturing Systems

M.S., Industrial Engineering, July 2009

Bilkent University, Ankara, Turkey

Overall GPA: 3.75/4.00

Thesis Title: Integrated Scheduling of Production and Logistics Operations of a Multi-Plant Manufacturer Serving a Single Customer Area

B.S., Industrial Engineering, May 2006

Bilkent University, Ankara, Turkey

Overall GPA: 3.55/4.00

Senior Project: Coca-Cola Icecek A.S. Vendor Managed Inventory System Development in Distributors Project

Related Courses:

Production Planning, Quality Assurance and Reliability, Manufacturing Processes, Scheduling Theory and Applications, Inventory Theory, Simulation, Decision Analysis, Engineering Economic Analysis, Metaheuristics, Data Mining, , Operations Analysis and Design, Mathematical Statistics, Linear Programming, Discrete Optimization, Queueing Theory, Statistical Methods in Bioinformatics, Probabilistic Analysis, Global Political Economy, Production Information Systems, Computers and Data Organization, Computer-Aided Manufacturing

EXPERIENCE:

01/2012 - 08/2012

Intern, Sandoz, Princeton, NJ

- Created a decision support tool that helps supply planners with their monthly supply planning and inbound transportation mode decisions
- Worked on creating a decision support tool for distribution network design that gives the decisions on the number, size and locations of the distribution centers as well as allocation of the products to the distribution centers
- Developed a tool that uses bin-packing algorithm for sales and marketing department to use during the month-end special sales
- Mentored a group of undergraduate students from Department of Industrial and Systems Engineering, Georgia Institute of Technology for their senior project with Sandoz

09/2011 - 12/2011

Intern, BNSF Railway, Austin

- Worked on developing a heuristic algorithm for locomotive assignment problem

07/2011 - 09/2011

Intern, Infosys Limited, India

- Worked at Infosys Labs, the research and development department of Infosys
- Devised a novel clustering algorithm for social networks using network topologies
- Wrote a paper on the proposed social network clustering algorithm and submitted it to the COMAD 2011 Conference

- 06/2005 - 07/2005 **Intern, VANSAN Machine Industries Inc., Turkey**
- Worked at Quality Control Department
 - Using statistical process control tools, prepared a report on the quality of the products for ISO accreditation
 - Designed a mobile workstation for handling heavy products that resulted in increased product quality and decreased cycle times
 - Prepared an emergency situation plan for the company. The plan was used as a template by other companies
- 08/2004 - 09/2004 **Intern, ASELSAN Electronic Industries A.S., Turkey**
- Worked at Calibration Department
 - Helped calibrate tools used in manufacturing

ACADEMIC EXPERIENCE:

- 09/2012 - 05/2013 **Teaching Assistant for Engineering Computational Methods Course, UT Austin**
- 08/2013 - 01/2014
- Held weekly lab sessions to teach students how to program the mathematical models they learned in class using C/C++ and Matlab programming languages
 - Graded homework, lab work and exams
- 01/2009 - 06/2011 **Graduate Research Assistant, UT Austin**
- Worked on devising an integrated decision making policy for maintenance scheduling and product dispatching in semiconductor manufacturing and was supported by the International SEMATECH Manufacturing Initiative
- 09/2010 - 01/2011 **Teaching Assistant for Linear Programming Course, UT Austin**
- Held office hours to help the students with the course and answer their questions
 - Graded homework and exams
- 09/2006 - 05/2008 **Teaching Assistant, Bilkent University, Turkey**
- Courses: Facility Layout and Location, Distribution Logistics, Quality Assurance and Reliability, Multi-Objective Decision Analysis
 - Taught the class in professor's absence
 - Answered the students' questions regarding the course by appointment
 - Graded the homework, term projects and exams

SKILLS:

- MATLAB, Java, C/C++, VBA
- Minitab, AutoCAD, Xpress IVE, Arena, GAMS, AutoMod, AutoSched
- Microsoft Office Applications
- Windows 95/98/XP/Vista/7
- **Languages:** Turkish (fluent), English (fluent), German (basic)

ACCOMPLISHMENTS:

- 2008 - 2009
- UT Austin Preemptive Fellowship
- 2006 - 2008
- Scholarship of TUBITAK (The Scientific and Technical Research Council of Turkey) for successful graduate students
- 2002 - 2008
- Bilkent University Full Scholarship
- 2002 - 2006
- Bilkent University High Honour Student

ACTIVITIES:

- 2011 - 2013
- Representative Member, UT Austin Turkish University Students Association
- 2010 - 2011
- President, UT Austin Turkish University Students Association
- 2002 - 2008
- Member, Bilkent University Operations Research Club
- 2003 - 2006
- Member, Bilkent University Cinema Club
- 2003 - 2004
- Member, Voluntary Teaching Project

PUBLICATIONS:

- Celen, M., Djurdjanovic, D., 2012, "Joint Maintenance and Production Operations Decision Making in Flexible Manufacturing Systems," *Proceedings of the ASME 2012 International Manufacturing Science and Engineering Conference*, Paper ID. MSEC2012-7258.
- Celen, M., Djurdjanovic, D., 2012, "Operation-Dependent Maintenance Scheduling in Flexible Manufacturing Systems," *CIRP Journal of Manufacturing Science and Technology*, vol. 5, pp. 296-308.
- Cholette, M. E., Celen, M., Djurdjanovic, D., and Rasberry, J. D., 2013, "Condition Based Monitoring and Operational Decision Making in Semiconductor Manufacturing," accepted for publication in *IEEE Transactions on Semiconductor Manufacturing*, Manuscript ID. TSM-13-0037.