**AHMET ÖRNEK**

**EDUCATION**

**PHD Mechanical Engineering, İstanbul Technical University**

2016 - Present Thesis: Lean Production Techniques

**Postgraduate Mechanical Engineering, İstanbul Technical University**

2014 - 2016Thesis: High Speed CNC Machines

**University Mechanical Engineering, Middle East Technical Univ.**

2010 - 2014 Interest of Area: Manufacturing, Quality, Production Planning

**WORK EXPERIENCE**

**İstanbul Technical University**  09/2016 - Present

**Research Assistant**

Cost model calculation of high speed machines under the consultation of Prof. Dr. Mehmet Örnek. Compared high speed machining with conventional CNC machining in the light of that cost model. Found out which machining technique is more effective in which circumstances. Moreover, giving the courses Production Techniques and Lean Production.

**ABC Otomotiv A.Ş. / İstanbul** 09/2015 - 09/2016

**Supplier Development Engineer**

Followed up the manufacturing processes of the automotive suppliers. Production of the automotive parts in suppliers on time in quality standards in cooperation with the purchasing and logistics departments. Solving and reporting the problems in production. Development of the suppliers' production techniques based on the standards.

**THESIS & PROJECTS**

**Postgraduate Thesis:** **Economics of High Speed Machining, ITU** 2015-2016

Worked as a part of a two-person team. Created a cost model calculating the unit manufacturing cost of a specific product. Compared high speed machining with conventional CNC machining in the light of that cost model. Found out which machining technique is more effective in which circumstances.

**Graduation Project: 2D Paper Cutter, METU** 2014

Worked as a member of a six-person team. Designed a paper cutter that could cut any shape in 2D given through AutoCAD. Initiated two design changes to reduce the number of motors from four to two. Manufactured the whole machine in the workshop of the university. Competed with four teams taking into account the criteria of speed of cutting, weight, cost and quality, and awarded as the “winner team”.

**PUBLICATIONS**

Örnek, Ahmet. Cost Modelling of High Speed CNC Machines. Journal of Knowledge-Based, Optimal Technology 82 (2016), 57-60.

Örnek, Ahmet & Smith, John. Visualizing the Turing machine using embedded archetypes. Journal of Embedded Configurations 25 (10/2015), 85-102.

**PRESENTATIONS & CONFERENCES**

European Research Council, İstanbul 7-12/10/2016

Ergonomics Society Group Meeting, Nottingham 02/2016

"JIT & Lean Production" Presentaion, ITU 04/2016

**AWARS & SCHOLARSHIPS**

EPSRC Research Bursary 2016 - 2017

Graduation Degree the 2nd, Postgraduate, ITU 2016

Spring Semester High Honour Certificate, ITU 2016

Autumn Semester Honour Certificate, METU 2014

**ADDITIONAL EDUCATION & CERTIFICATES**

Lean Production Techniques, ITU Cont. Education Center 2016

Total Quality Management Training, METU 2015



Beşiktaş / İSTANBUL

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**Personal Information**

Date of Birth: 01/01/1993

Nationality: Turkish

Marital Status: Single

Sex: Male

Driving License: B (2014)

Military Service: Postponed

(Until 01/10/2019)

**Language Skills**

**English**

Reading: Advanced, Writing: Advanced, Speaking: Good

**French**

Reading: Good, Writing: Good, Speaking: Intermediate

**Computer Skills**

Unigraphics, AutoCAD: Good

Word, Excel, Powerpoint, Outlook: Excellent

Mathcad: Good

**References**

**Mehmet Örnek**, ITU, Professor, (212) 1111111

**Ahmet Örnek**, METU, Professor, (312) 3333333

**Ayşe Örnek**, ABC Otomotiv A.Ş, General Manager, (212) 9999999

**Social Activities**

Photography, University Volleyball Team Captain

**Club Memberships**

Member of METU Alumni, Photography Association Member