

## Ferah OGUN

Mechanical Engineering Department  
ankaya University, Ankara  
[ferahco@cankaya.edu.tr](mailto:ferahco@cankaya.edu.tr)

Tel: 0/312/2331330



### ACADEMIC DEGREES

- Feb. 2014-ongoing Ph.D., Mechanical Engineering Department, Middle East Technical University (METU), Ankara (GPA: 3.42/4.00)
- Sept. 2011-Sept. 2013 M.Sc., Mechanical Engineering Department, Middle East Technical University (METU), Ankara (GPA: 3.71/4.00) (Thesis title: Implementation and Comparison of Different Constitutive Models in Deep Drawing Process)
- Sept. 2007-June 2011 B.Sc., Mechanical Engineering Department, Bařkent University, Ankara (GPA: 3.51/4.00, 1<sup>st</sup> ranking student of the department in graduation).
- 2004-2007 High school, Gazi University Foundation Private Science High School, Ankara (GPA: 5.00/5.00, 3<sup>rd</sup> ranking student in high school graduation).

### EMPLOYMENT

- Jan. 2, 2014-ongoing Research Assistant, Mechanical Engineering Department, ankaya University, Ankara.

### AWARDS AND SCHOLARSHIPS

- Sept. 2008- Sept. 2013 High Honor student during B.Sc. and M.Sc. studies
- October 2011 3<sup>rd</sup> award, 6<sup>th</sup> National Hydraulic Pneumatic Congress and Exhibition-Project Contest (Project title: Sıvı Basıncı ile Sac Őekillendirme (Hydroforming) Sisteminin Tasarımı, İmalatı ve Denenmesi).
- June 2011 1<sup>st</sup> ranking student in B.Sc. graduation
- Sept. 2011-June 2011 TÜBİTAK-BİDEB Scholarship in B.Sc. graduation project
- Sept. 2008- June 2011 Success Scholarships during B.Sc. studies
- 2004-2007 3<sup>rd</sup> ranking student in high school graduation

## PUBLICATIONS

### A) International Journals (SCI and SCI-expanded)

- 1) Cogun, C., Esen, Z., Genc, A., **Cogun, F.** and Akturk, N., “The Effect of PM Cu-B<sub>4</sub>C Electrodes on Workpiece Surface Characteristics and Machining Performance of EDM”, Proc. Instn. of Mech. Engineers-Part B, Journal of Engineering Manufacture, 2015 (in print)
- 2) **Cogun, F.** and Darendeliler, H., “Comparison of different yield criteria in various deep drawn cups”, International Journal of Material Forming, 2015 (accepted for publication)

### B) International Conferences

- 1) **Çoğun, F.**, Alkan, F. and Elaldı, F., “Design, Manufacture and Implementation of Sheet Metal Hydroforming System”, 6<sup>th</sup> International Conference and Exhibition on Design and Production of Machines and Dies/Molds, June 23-26, Atılım University, Ankara, 2011.
- 2) **Cogun, F.**, Esat, V. and Yildirim, R.O., “Comparison of Analytical and Numerical Approaches for the Effect of Die and Tube Parameters on Tube Expansion Process”, 8<sup>th</sup> International Conference and Exhibition on Design and Production of Machines and Dies/Molds, June 18-21, pp. 67-71, Kuşadası, Aydın, 2015.

### C) National Conferences

- 1) Alkan, F., **Çoğun, F.** and Elaldı, F., “Sıvı Basıncı ile Sac Şekillendirme (Hydroforming) Sisteminin Tasarımı, İmalatı ve Denenmesi” (text in Turkish), 6<sup>th</sup> National Hydraulic Pneumatic Congress and Exhibition, Oct. 12-15, İzmir, 2011.
- 2) Ziyara, A., **Çoğun, F.**, Varol, C., Totuk, O. and Yıldırım, E., “Optimization of Hot Embossing Process for Fabrication of Microfluidic Devices”, 8<sup>th</sup> Engineering and Technology Symposium, May 14-15, Cankaya University, Ankara, 2015 (text in English).

### D) Magazines

- 1) Alkan, F., **Çoğun, F.** and Elaldı, F., “Sıvı Basıncı ile Sac Şekillendirme (Hydroforming) Sisteminin Tasarımı, İmalatı ve Denenmesi, Otomasyon Magazine, April 2012/04, Vol. 238, pp. 360-368 (text in Turkish).

### E) Books

- 1) Proc. of 8<sup>th</sup> Engineering and Technology Symposium, May 14-15, 2015 (Editors: S. Kemal İder, Turgut Akyürek, Ulaş Beldek, Özgün Selvi, Ender Yıldırım, **Ferah Çoğun**, Sühan Mergen)

## CONFERENCE ORGANIZATION

- 1) Organizing Committee Member, 8<sup>th</sup> Engineering and Technology Symposium, May 14-15, 2015.

## JOURNAL ARTICLE REVIEWS

2014, Journal of Mechanical Science and Technology (indexed by SCI).

## PROJECTS

2010-2011 “Design, Manufacture and Implementation of Sheet Metal Hydroforming System”, Project Leader, TÜBİTAK BİDEB 2209-National/International Research Projects Supporting Program for University Students.

## ASSISTANSHIP

### 2014-2015 (II) Term

|        |   |
|--------|---|
| ME 102 | Mechanical Engineering Orientation      |
| ME 114 | Computer Aided Engineering Drawing II   |
| ME 202 | Strength of Materials                   |
| ME 206 | Dynamics                                |
| ME 210 | Manufacturing Processes                 |
| ME 308 | Machine Elements II                     |
| ME402  | Introduction to Finite Element Analysis |

### 2014-2015 (I) Term

|        |                                      |
|--------|--------------------------------------|
| ME 251 | Statics and Strength of Materials    |
| ME 203 | Statics                              |
| ME 113 | Computer Aided Engineering Drawing I |
| ME 301 | Theory of Machines                   |

### 2013-2014 (II) Term

|        |                                       |
|--------|---------------------------------------|
| ME 102 | Mechanical Engineering Orientation    |
| ME 114 | Computer Aided Engineering Drawing II |
| ME 202 | Strength of Materials                 |
| ME 206 | Dynamics                              |

## **INTERNSHIP**

June 2009 Erkunt Sanayi A.Ş., Manufacturing, 20 working days.

June 2010 Aselsan A.Ş., Management, 20 working days.

## **COMPUTER SKILLS**

**Programming Languages:** MATLAB, C, FORTRAN.

**Design Softwares:** SOLIDWORKS, SOLIDCAM, AUTOCAD, AUTOCAD MECHANICAL, AUTODESK INVENTOR.

**Analysis Packages:** ABAQUS, ANSYS, DYNAFORM, GAMBIT, FLUENT, COMSOL.