

**BARIŞ TANER, MSc**

**İzmir Yüksek Teknoloji Enstitüsü**

**Makine Mühendisliği Bölümü**

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## **EDUCATION**

- 2013 - 2016      İzmir Institute of Technology, İzmir, Turkey  
MSc in Mechanical Engineering  
Thesis title: Development and Experimental Verification of the  
Stiffness Matrix of the HIPHAD Haptic Device
- 2008 - 2013      İzmir Institute of Technology, İzmir, Turkey  
BS in Mechanical Engineering
- 2004 - 2007      Karsiyaka High School (KL), İzmir, Turkey

## **WORK EXPERIENCE**

- December 2013 -      Research Assistant, Department of Mechanical Engineering, İzmir  
Institute of Technology, İzmir, Turkey
- October 2012 -      R&D Personal, UKCAST, İzmir, Turkey  
October 2013
- Summer 2012      Intern, Aero Rüzgar Endüstrisi A.Ş., İzmir, Turkey

## **PUBLICATIONS**

B. Taner, "Development and experimental verification of the stiffness matrix of the HIPHAD haptic device," MSc Thesis, İzmir Institute of Technology, 2016.

H. T. Gundogdu, M. I. C. Dede, B. Taner, A. Ridolfi, R. Costanzi, B. Allotta "Design and testing of an innovative cleaning tool for underwater applications," Proceedings of the Institution of

Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment, Published online before print October 18, 2015 (DOI: 10.1177/1475090215610599).

B. Taner, M. I. C. Dede, E. Uzunoglu "Applying Model Mediation Method to a Mobile Robot Bilateral Teleoperation System Experiencing Time Delays in Communication," TrC-IFTtoMM Symposium on Theory of Machines and Mechanisms, İzmir, Türkiye, June 14-17, pp. 606-614, 2015.

M. G. Karabulut, M. I. C. Dede, B. Taner "A Study on Selecting the Method of Constructing the Information to be Exchanged in Unlimited-workspace Bilateral Teleoperation," TrC-IFTtoMM Symposium on Theory of Machines and Mechanisms, İzmir, Türkiye, June 14-17, pp. 619-625, 2015.

H. Tolasa Gündoğdu, M. I. C. Dede, B. Taner, A. Ridolfi, R. Costanzi, B. Allotta "An innovative Cleaning Tool for underwater soft cleaning operations," MTS/IEEE OCEANS, Genova, Italy, May 18-21, 2015.

M. G. Karabulut, B. Taner, M. I. C. Dede "MR Sıvısı ile Çalışanan Haptik Kol Tasarımı (Design of MR-fluid based Haptic Paddle)," TOK 2015 Bildiri Kitabı, Denizli, Türkiye, 10-12 Eylül, pp. 867-872, 2015.

M. I. C. Dede, B. Taner, T. Bilginçan, and M. Ceccarelli "Kinematic Analysis Validation and Calibration of a Haptic Interface," Advances on Theory and Practice of Robots and Manipulators Mechanisms and Machine Science, Marco Ceccarelli and Victor A. Glazunov (Eds.), Volume 22, pp 375-381 Springer, Dordrecht, The Netherlands, 2014 (ISBN: 978-3-319-07057-5).

S. Boztaş, B. Taner, M. G. Karabulut, M. I. C. Dede "Haptik Cihazlarda Yer Çekimi Telafisinin Kullanıcı Performansı Üzerindeki Etkileri (The Effects of the Gravity Compensation applied to Haptic Devices on Operator's Performance)," TOK 2014 Bildiri Kitabı, Kocaeli, Türkiye, 11-13 Eylül, pp. 361-365, 2014.

## **PROJECTS**

September 2012 - August 2015      Soft Cleaning Tool Design in ARROWS (ARchaeological ROBOT systems for the World's Seas) Project funded by European Commission in the framework of the FP7 call ENV-2012, challenge 6.2-6.

## **LANGUAGES**

English-Fluent

German-Intermediate

## **COMPUTER SKILLS**

Programming Languages: Python, Q-basic

CAD Packages: Solidworks, Pro-Engineer Creo

CAE Packages: Matlab, Matlab Simulink, Comsol 4.5

## **ACADEMIC INTERESTS**

Stiffness of Multibody structures

Robot Kinematics

Underwater Vehicle Design

**Last updated:** 25.06.2016