Deniz Mengü
Curriculum Vitae

PERSONAL DETAILS

Birth	February 9, 1988
Address	Tarabya Mah. Mestanoglu Sok. Sarıyer, Istanbul/TURKEY
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EDUCATION

PhD. in Electrical Engineering   2016-present
University of California, Los Angeles
> Biophotonics Laboratory.
> Research Advisor: *Prof. Aydogan Ozcan*
> Research Focus: *Lensfree Microscopy*

MSc. in Electrical and Electronics Engineering   2013-2016
Koc University
> Research and Teaching Assistant at Koc University.
> Research Focus: *Fast High Quality Speckle-free Phase-only Holographic Image Projection*
> Teaching Experience: Circuits and Systems Laboratory, Intro. To Probability and Random Variables, Stochastic Models and Applications(Graduate Level)
> *GPA* : 3.68/4.00

BSc. in Electrical and Electronics Engineering   2006-2012
Middle East Technical University
> Focus on VLSI design and solid state electronics
> *GPA* : 3.51/4.00

Erasmus/Exchange Student in Electrical and Electronics Eng.   2010
Technical University of Denmark, Lyngby
> Focus on Nanotechnology and solid state electronics

WORK EXPERIENCE

Teaching and Research Assistant at *Koc University*   2013-present
Teaching Assistant on following courses;
Introduction to Science
Circuits and Systems
Introduction to Probability and Random Variables
Stochastic Models and Applications (Grad Level)
Research Assistant at Optical Microsystems Laboratory

Control Systems Engineer   2012-2013
Inci Automation Systems, Full-time

Worked as a consultant on a project on the partial replacement of automation systems in production lines.

VLSI Design Engineer - Summer Intern   2011
Space Technologies Research Institute of The Scientific and Technological Research Council of Turkey, Full time
Developed embedded systems by Verilog HDL and VHDL. Rated "truly distinctive" for *Analytic Skills* and *Teamwork*.

SKILLS

Languages	Turkish (native)
	English (fluent) : $TOEFLscore = 104$
	German (Beginner)
Software	MATLAB, PHYTON, VERILOG/VHDL, C++, LATEX
	MICROSOFT OFFICE, ZEMAX, CAD, SOLIDWORKS
Experimental Devices	SPATIAL LIGHT MODULATORS, WHITE LIGHT INTERFEROMETER

HONORS AND AWARDS

Runner-up for Best Graduate Award   2006
Bursa Anatolian High School

Listed as 481st in *National College Admission Exam*   2006

Listed as 78th in *National Graduate Record Examination*   2011

High Honor Graduate Award   2012
Middle East Technical University

MSc. Scholarship Award   2013
Turkish Scientific and Technological Research Council

Scientific Travel/Conference Funding Award   2015
Koc University

PUBLICATIONS

Mahdi Kazempour, **Deniz Mengu**, Kivanc Hedili, Erdem Ulusoy, Hakan Urey. "Holographic Image Projection with Doubled Field of View by Half-Pixel Shift Alignment of Two Spatial Light Modulators". 10th International Symposium on Display Holography.

Deniz Mengu, Erdem Ulusoy, and Hakan Urey. "Holographic Image Projection with Phase Only Spatial Light Modulators via Non-Iterative CGH Computation Method." Digital Holography and Three-Dimensional Imaging. Optical Society of America, 2015.

(INVITED) Hakan Urey, Erdem Ulusoy, SeyedMahdi M. K. KazempourRadi, **Deniz Mengu**, Selim Olcer, Sven T. Holmstrom. "Wearable and Augmented Reality Displays Using MEMS and SLMs". "*SPIE Photonics West*", 2016.

Deniz Mengu, Erdem Ulusoy, and Hakan Urey. "Non-iterative phase hologram computation for low speckle holographic image projection." Optics Express 24.5 (2016), 4462-4476.

Deniz Mengu, Erdem Ulusoy, and Hakan Urey "High Quality Speckle Free Phase Only Computer Generated Holographic Image Projection" Optics Express, 2016. - to be submitted for publication.****

**** PCT Patent Application (2016)