

Uwe Boettcher

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Education and training

09/2008 – present	Ph.D. candidate in Mechanical and Aerospace Engineering at University of California, San Diego
09/2008	Diplom-Ingenieur (Dipl.-Ing.) degree corresponding to the Master of Science (M.Sc.) in Electrical Engineering, Dresden University of Technology, Germany
02/2008 - 08/2008	Diplomarbeit (Masters Thesis): "Advanced track-following servo systems in magnetic storage devices", TU Dresden and UC San Diego
08/2007 - 02/2008	Internship, University of California, San Diego, Center for Magnetic Recording Research
08/2005	Pre-degree, specialization in Precision Mechanics
10/2003 - 09/2008	Study of Electrical Engineering at Dresden University of Technology, Germany

Skills and competences

Languages		- fluent in English and German, - intermediate in French and Spanish
Computer	programming	- PHP, MySQL, HTML, Assembler, C/C++, Java
	software	- CAD-Software (Autodesk Inventor and AutoCAD), Matlab, LabVIEW, Origin, image editing: Adobe Photoshop and Illustrator, Microsoft Office

Awards and Scholarships

- ASME ISPS 2008 Graduate Student Conference Scholarship
- Best Track Paper Award, ASME ISPS 2008

Memberships

- Institute of Electrical and Electronics Engineers (IEEE)
- American Society of Mechanical Engineers (ASME)

Other interests

- Music (guitar and drums) and Sports (especially jogging)

Publications

Journal papers

- A1 Boettcher U, Raeymaekers B, de Callafon RA, Talke FE, Dynamic Modeling and Control of a Piezo-Electric Dual-Stage Tape Servo Actuator; IEEE Transactions on Magnetics, 2009, Vol. 45(7), pp. 3017-3024
- A2 Boettcher U, de Callafon RA, Talke FE, Modeling and Control of a Dual-Stage Actuator Hard Disk Drive; submitted to Journal of Advanced Mechanical Design, Systems, and Manufacturing

Conference Papers

- B1 Boettcher U, Raeymaekers B, de Callafon RA, Talke FE, Dynamic Modeling and Control of a Piezo-Electric Dual-Stage Tape Servo Actuator ; Proceedings of ASME Conference on Engineering Systems Design and Analysis, Haifa, Israel, 07-09 July 2008
- B2 Boettcher U, Raeymaekers B, de Callafon RA, Talke FE, Design of a Dual-stage Actuator Tape Head Controller; Proceedings of Information Storage and Processing Systems (ISPS) Conference, Santa Clara, CA (USA), 16-17 June 2008
- B3 Boettcher U, de Callafon RA, Talke FE, Modeling and Control of a dual-stage actuator hard disk drive, 2009 JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment (MIPE 2009), June 17-20, 2009, Tsukuba International Congress Center, Ibaraki, Japan
- B4 Boettcher U, de Callafon RA, Talke FE, Data based modeling and control of a dual-stage actuator hard disk drive, Proceedings of 48th IEEE Conference on Decision and Control, December 16-18, 2009 in Shanghai, China

Posters

- C1 Boettcher, U., Raeymaekers, B., de Callafon, R.A., Talke, F.E., "Dynamic Modeling and control of a piezo-electric dual-stage tape servo actuator", Jacobs School of Engineering, Annual Research Expo 2008
- C2 Boettcher, U., de Callafon, R.A., Talke, F.E., "Experimental investigation and modeling of a dual-stage actuator hard disk drive", Jacobs School of Engineering, Annual Research Expo 2009