

# Johannes F.C. Markmiller

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| <b>Personal Information</b> | Date of Birth: 09.01.1977<br>Nationality: German   |
| <b>Education</b>            | since 2004 <b>Stanford University, USA</b><br>Ph.D. Candidate, Aeronautics and Astronautics<br>Advisor: Prof. Fu-Kuo Chang<br>Research topic: Design of Smart Composite Airplane Structures.<br><br>1998–2003 <b>Technical University of Munich, Germany</b><br>Dipl.-Ing. Mechanical Engineering Engineering<br><br>2002 <b>The University of Queensland, Australia</b><br>Study abroad program |
| <b>Experience</b>           | since 2004 <b>Stanford University</b> , Dept. of Aeronautics and Astronautics<br>Research Assistant<br><br>2001 <b>Diehl Company</b> , Germany<br>Intern: Development of aerospace systems<br><br>2000 <b>BMW / Rover</b> , Gaydon, England<br>Intern: Project management, development of the power train of the new MINI  |

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| <b>Publications</b>           | 2006            | <b>“A Potential Link from Damage Diagnostics to Health Prognostics of Composites through Built-in Sensors.”</b> Fu-Kuo Chang, Johannes F.C. Markmiller, Jeong-Beom Ihn, Kok Yen Cheng, ASME, Journal of Vibration and Acoustics, accepted for publication.                                      |
|                               | 2006            | <b>“Design of SHM-Embedded Structures for Space Operation Vehicles.”</b> Fu-Kuo Chang, Johannes F.C. Markmiller, Jinkyu Yang, Yujun Kim, Proceedings of the ISHEM (NASA Ames Research Center).  |
|                               | 2006            | <b>“A New Look in Design of Intelligent Structures with SHM.”</b> Fu-Kuo Chang, Johannes F.C. Markmiller, Keynote, Proceedings of the 3 <sup>rd</sup> European Workshop on Structural Health Monitoring, Granada, Spain.  |
|                               | 2005            | <b>“Composite Design with SHM.”</b> Fu-Kuo Chang, Johannes F.C. Markmiller, Proceedings of the 5 <sup>th</sup> International Workshop on Structural Health Monitoring, Stanford University.   |
|                               | 2004            | <b>“Design, Analysis, Manufacturing and Testing of a Composite Smart-Bridge.”</b> A. Rakow, J. Abrams, K. Cheng, S. Garipey, T. Kono, K. Law, J. Markmiller, C. Patel, M. Sarkar, F. Sediles, L. Yu, T. Muukkonen, SAMPE Journal (Society for the Advancement of Material Process Engineering). |
| <b>Additional Information</b> | Languages       | Fluent in English and German. Knowledge of Latin and Ancient Greek  |
|                               | Computer Skills | Extensive working experience with ABAQUS, UNIX/Linux and supercomputers.<br>Experience with FLUENT, other CFD codes and commercial CAE programs.<br>Knowledge of C, Fortran, Python, Matlab and MS Office.  |
| <b>Activities</b>             |                 | I enjoy traveling, mountaineering, running, mountain biking and flying  |
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