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Doug Buettner is an Aerospace Corporate Fellow and is the Systems Director of Space Software in the Space Based Surveillance Division of The Aerospace Corporation. Mr. Buettner has over 15 years of experience working on mathematically and algorithmically challenging software projects with demonstrated expertise in software testing, testing in the software lifecycle, and software quality assurance. He has complete software lifecycle experience in a number of roles from a number of object oriented projects using a variety of computer languages on high performance computing platforms including very large-scale parallel architectures, large scale client-server architectures, and real-time embedded architectures.

Mr. Buettner joined The Aerospace Corporation in December 2002 as an Engineering Specialist in the Software Architecture and Engineering Department. He supported the M1 biometrics standardization committee, where he was the editor of the Point Of Sale biometrics standard that is on schedule to become an American National Standard this year. He was on the Missile Defense Agency Mission Assurance Design Team as the software co-lead, and was the software lead for an SMC requisitioned on-orbit anomaly study.

Prior to joining the Aerospace Corporation, Mr. Buettner was the Director of Quality Assurance and Biometric Technology Evaluation for Indivos Corporation (now PayByTouch™) where he staffed the Quality Assurance department, and was the point of contact for all things biometric. Indivos attracted international press for its first of a kind biometric payment system. Prior to joining Indivos, Mr. Buettner was the Quality Assurance manager for the front-end web-server and back-end database teams for a very large Internet startup company.

Mr. Buettner worked at XonTech, Incorporated's Special Studies Division for seven years as a Senior Analyst where he was the Principal Investigator and Project Manager for a contract to support the Jet Propulsion Laboratory's STARDUST mission. He was the software test lead on large software contracts (for example: the Upgraded Early Warning Radar (UEWR) Test Article), and did a wide variety of data analysis and image/signal processing tasks.

Mr. Buettner worked as a contract consultant for JPL, where he built the hardware and software for JPL's prototype aerogel fabrication laboratory, which was the world's first laboratory to flight-qualify aerogel for space use. Aerogel from the lab flew on numerous Space Shuttle missions, the STARDUST spacecraft, the MIR space station, and as insulation on Sojourner (the first MARS micro-rover).

Mr. Buettner has a B.S. and an M.S. in Physics from Oregon State University where he worked on hypervelocity impact physics through funding provided by NASA. Mr. Buettner was selected to be listed in the 2006-2007 edition of Marquis' Who's Who in Science and Engineering. He is currently working on his Ph.D. as an Aerospace Corporate Fellow in Astronautical Engineering, with a minor in Computer Science at the University of Southern California.