

Resume

H. Robert (Bob) Welge

Background: An Aerospace Manager/Engineer with experience in numerous diverse projects, leading the execution of successful programs, consistently achieving milestones and delivering products on-time and on-budget with high levels of customer satisfaction. Previous programs have spanned low speed to hypersonics and often involved large budgets. Knowledgeable of Industry, NASA and Military program procedures and requirements.

- Experience**
- Low sonic boom design and wind tunnel tests for NASA
 - Environmentally Responsible Aviation (ERA) program development and execution
 - Supersonic vehicle system studies (N+2 & N+3) for NASA
 - Supersonic low sonic boom research for NASA
 - Advanced military transport powered lift transport design/testing
 - Morphing aircraft
 - Vehicle concepts for low sonic boom flight research
 - Future Combat Systems (FCS)
 - Space Launch Initiative (SLI) Program
 - Integrated Space Transportation Program (ISTP)
 - NASA High Speed Research (HSR)
 - National Aerospace Plane (NASP)
 - Advanced Propfan Aircraft
 - Laminar flow technology
 - Several military activities including flight testing of a new engine in the A-4 Aircraft
 - Analytical methods development
 - STOL and DC-10 powered simulator design and testing
 - Development of the DC-10 nacelle design
 - Supersonic inlet design
 - Ramjet engine performance
 - Nozzle performance and installation
 - Aerodynamics of Motorsports
- Employment**
- Boeing
 - Marquardt Aircraft
- Publications**
- Thirty-four (34) publications: AIAA Conferences, AIAA Journal of Aircraft, Co-Author of an AIAA book, SAE and ASME conferences
- Memberships:**
- Fellow SAE International (SAE)
 - Past-Chair and current member SAE Air and Space Group
 - Currently Member at Large SAE Engineering Meetings Board
 - Currently Activity Chair, Motorsports, SAE Land and Sea Group (LSG)
 - Associate Fellow American Institute of Aeronautics and Astronautics (AIAA)
 - Member and Past Chair AIAA Orange County Executive Council
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- Awards:**
- Served on NASA's Aeronautics Advisory Council.
 - Recipient of NASA Award for an Aerodynamic Design
 - McFarland Award from SAE—Outstanding Service (1999 & 2005)
 - NASA Achievement Award—TU144 Program (2000)
 - NASA/Industry Certificate of Appreciation, High Speed Research Program (1999)
 - Selected for the SAE Industrial Lectureship Program (1990)
 - Taught UCLA Short Course on Hypersonics (1987-1989)
 - Lecturer at AIAA "Hypersonic Vehicle Symposium—Aircraft for the 21st Century" (1987)
 - Presented Seminar at University of Illinois (1987)
 - Presented Seminar at CalTech (1985)
 - NASA Tech Brief—Technical Innovation Award (1985)
- Education:**
- Master of Science, UCLA
 - Bachelor of Science-Engineering, UCLA (With Honors)