

## 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
  - Roberts Engineering Development
- Publications**
- Thirty-four (35) publications: AIAA Conferences, AIAA Journal of Aircraft, Co-Author of an AIAA book, SAE and ASME conferences
- Memberships:**
- Fellow—Emeritus SAE International (SAE)
  - Past Chair of the SAE Engineering Meetings Board
  - Past-Chair SAE Aerospace Advisory Group (AAG)
  - Past Chair, Motorsports, SAE Ground Vehicle Advisory Group (GVAG)
  - Associate Fellow – Emeritus American Institute of Aeronautics and Astronautics (AIAA)
  - Member and Past Chair AIAA Orange County Executive Council
- Awards:**
- Served on NASA's Aeronautics Advisory Council.
  - Distinguished Engineering Merit Award from Orange County Engineering 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)
- More information** [www.hrobertwelge.com](http://www.hrobertwelge.com)