

Myron Hecht

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Myron Hecht is a Senior Engineering Specialist at the Aerospace Corporation where he works on software and system reliability and system safety issues on satellite and space programs. Mr. Hecht has supported the acquisition of the advanced navigation satellites, next generation military communications satellites, and ground systems in the areas of safety, reliability, integrity, sustainment, and software development processes. As a result of this work, he has developed of general acquisition guidelines for addressing the reliability and related attributes of software intensive systems and for systems conforming to the demanding requirements of aviation safety.

His research interests include architectural and software reliability, fault tolerance, and the product liability aspects of consumer products with embedded firmware. Mr. Hecht leads the corporate research initiative in software reliability including assembling one of the largest repositories of software failures and integrating advanced methodologies for the integration of hardware and software reliability growth models into unified system models.

Prior to joining Aerospace, Mr. Hecht was the president of SoHaR, a small R&D and consulting firm specializing in computer system reliability. In that capacity, he was one of the first to publish system architecture descriptions of fault tolerant middleware layers to transform commercial grade PCs into highly available and reliable clusters for process control applications. He supported the Federal Aviation Administration in the acquisition of systems for en-route, oceanic, and terminal air traffic control, and also developed models to predict staffing and sparing requirements the National Airspace System. Mr. Hecht also developed guidelines on the development of requirements, programming practices, and test used by the U.S. Nuclear Regulatory Commission for licensing safety critical systems in nuclear power plants. Mr. Hecht also performed reliability analyses for aerospace components that were used as a basis for type certifications on a number of civil and military aircraft.

Mr. Hecht is Sr. Member of the IEEE and has served on standards committees for computers in nuclear power plants, software in space-based systems, and, for the RTCA, software in avionics systems. He is an author of 80 publications and holds B.S. and M.S. degrees in nuclear engineering, an M.B.A., and a J.D. degree all from UCLA.