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His major research interests have been in the fields of high-level programming languages, compilers, and advanced software tools. In the early 1970s, while working in industry at Systems Development Corporation in Santa Monica, CA, he designed and implemented one of the first high-level real-time languages for the German Air Traffic Control Agency. During his tenure as a Professor of Computer Science at the University of Bonn, Germany, he contributed to the German supercomputer project "SUPRENUM", leading the design of the first Fortran-based compilation system for distributed-memory architectures in 1989. After his move to the University of Vienna, he became the chief designer of the Vienna Fortran language (1992) that provided a major input for the High Performance Fortran (HPF) standard. Since 1997, Dr. Zima has been heading the Priority Research Program "Aurora", a ten-year interdisciplinary research program sponsored by the Austrian Science Fund.

In 2001, Dr. Zima joined the Jet Propulsion Laboratory, California Institute of Technology, in Pasadena. His research over the past four years focused on the design of the "Chapel" programming language in the framework of the DARPA-sponsored HPCS project "Cascade". Most recently, he has become involved in a design effort targeting space-borne fault-tolerant high capability computing systems.

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