

## WALTER HAIMBERGER — PROFESSIONAL NARRATIVE

Although all three of my degrees are in mechanical engineering, I consider myself a systems oriented individual. My minor in my post masters' program was electrical engineering, and I have extensive optics education and experience. Much of my engineering experience has made use of this multi-disciplinary attitude. My primary areas of technical interest and practice are in the areas of systems dynamics, control systems, mechanical and electro-mechanical design and analysis, and optical systems.

The majority of my life as a direct employee of others was spent at Polaroid Corporation. There I worked on several intermediate volume (tens to thousands/year) products, including licensing cameras, an 8 x 10 medical laser printer (I was the mechanical engineering manager on this job, but maintained myself at approximately 40% individual contribution) using a new proprietary medium, and large format graphic arts applications utilizing the same proprietary medium. I also spent several years at Polaroid helping develop a high-density magnetic recording system, utilizing optical servo technology. This system was intended to become a consumer product with extremely high volumes, but unfortunately was never commercialized by Polaroid.

After Polaroid, I enjoyed several stints as a direct employee in various industries, including the semiconductor equipment industry (very volatile), and a start-up involved in developing density improvements for DVD storage technology (technically very stimulating and challenging). The majority of my time since Polaroid, has, however, been spent as an independent consultant. I have been fortunate to have had a variety of customers, including Polaroid, Polaroid spin-offs, Analogic Corporation, Lucent, ABB, and National Sensor Systems, an aerospace sensors company recently purchased by BAE Systems. Work for these customers has ranged very widely, and included system analysis and design, component analysis and design, development of processes, and vendor management.

I hold seven patents with others, and am responsible for numerous disclosures. Although I do appear to be capable of creativity, I consider myself primarily an implementer and troubleshooter. I have been successful at taking conceptual prototypes and extracting the required core functionality to produce a manufacturable design. I am very comfortable getting into the finest of details, but maintain a direction based on the big picture of a project. Partially due to my independent employment, but also due to my Polaroid experience, I enjoy, and have been very successful interacting with vendors and customers, both domestic and abroad. I have worked in Japan, Korea, France, Germany, Austria, and Canada. I am fluent in German, functional in French, but unfortunately only managed to pick up a few dozen words in Japanese and Korean.

I own and maintain a seat of SolidWorks CAD, and have experience with ProEngineer, and AutoCad. I own and maintain a seat of SolidWorks Simulation (static and dynamic) FEA, as well as SolidWorks Flow Simulation CFD. I also have experience with NasTran and Abaqus. I am very experienced in dynamic systems modeling using ACSL and Simulink. I am comfortable with most types of electronic test equipment, such as oscilloscopes, spectrum analyzers, data acquisition systems, etc. I am also particularly versed in manufacturing processes, and maintain a prototype machine shop for use in my consulting business.

For additional information, I can, of course, provide a detailed resume as well as a list of references.

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