

Erik Norris
1820 Maryland St.
Redwood City, CA 94061

SENIOR MECHANICAL DESIGNER

(650) 224-2010
erik@eriknorris.com
www.eriknorris.com

HIGHLIGHTED EXPERTISE

- 20 years mechanical design and consumer product development experience
- key involvement with over 40 successful commercial products
- 16 years Pro/ENGINEER experience specializing in developing highly complex, organic surfaces
- 11 years Pro/INTRALINK experience with workgroup configuration and daily support of PTC MCAD tools

PROFESSIONAL EXPERIENCE

2003 – present **SENIOR MECHANICAL DESIGNER**, *Digidesign, Daly City, California*

Digidesign is an industry leader in digital audio production, providing tools for audio creation, post production, collaboration, and distribution.

- manage multiple concurrent projects, including the delegation and assignment of project related tasks
- helped to re-establish the ME Dept as a critical resource for internal and external customers
- building and sharing knowledge by mentoring and organizing departmental focus groups
- developed and maintain engineering department website for collaboration and exchange
- provide ongoing Pro/ENGINEER and Pro/INTRALINK support and administration
- configured Windchill solutions for CAD collaboration and review by non-CAD users
- established and maintain departmental “best practice” documents for all aspects of workflow
- projects included the **ICON** and **D-Command** tactile worksurfaces, the **AVoption|V10**, and the extremely popular **Mbox 2** personal studio

1998 – 2003 **SENIOR MECHANICAL DESIGNER**, *Mechanistic, San Jose, California*

- provide freelance services in all phases of product development, from concept to production
- coordination of detailed design and documentation with successful transfer to high-volume manufacturing
- contributed to the **Microsoft Xbox**, and the **UltimateTV Media Center** (Microsoft’s “Home Of The Future”)
- surfaced and engineered the **Motorola MP3 Player** (CES 2002 Design honoree)
- other products include the **Netscreen-500**, **Hewlett Packard Jornada 430 PDA**, **SGI 540 Visual Workstation**, **DVDO Portable DVD Player**, and a series of **Echelon LonWorks** network controllers
- Clients included Microsoft, WebTV, Motorola, Shinwoo, Netscreen, Hewlett Packard.

1996 – 1998 **MECHANICAL DESIGNER**, *frogdesign, Sunnyvale, California*

frogdesign is a global consulting firm offering industrial design, engineering, brand, strategy, and digital media services.

- worked closely with industrial design to maintain subtle surface, gap and material finish requirements
- captured the design intent in CAD and ensured it was realized in the final manufactured product
- supported plastic injection molding and sheet metal tooling design, pilot builds, and manufacturing ramp
- projects included the **KaVo X-Unit** and **Edeca dental systems**, **Newscorp Satellite Television Receiver**, and **Vadem Clio**

1993 – 1996 **MECHANICAL DESIGNER**, *Mechanistic, La Honda, California*

- provide freelance product design services, from design verification to manufacturing support
- seamlessly integrated with cross-functional, inter-disciplinary product development teams
- designed and engineered the **SwitchBlade** and **Frantic Frames** inline speed skates
- projects included the **Sunbeam Toast Logic Window Toaster**, **Acer Aspire Accessory Telephone**, **Packard Bell Convertible Desktop/Tower PC**, and the **Fissler Smokeless BBQ**
- Clients included frogdesign, Function Engineering, SGI, EP Technologies.

- 1989 – 1993 **MECHANICAL DESIGNER**, *Silicon Graphics, Mountain View, California*
- performed acoustic, airflow and thermal analysis of the **SGI Personal Iris** family of products
 - provided technical support for three separate design engineering groups
 - coordinated and managed the purchase of prototype parts, models and rework services
 - assisted in the establishment of corporate product color and surface finish standards
 - contributed to the engineering of the **SGI Iris File**, **SGI Indigo**, **SGI Indigo II**, and **SGI Indy**

1985 – 1989 **ELECTRONICS PRODUCTION SUPERVISOR**, *EP Technologies, Mountain View, California*
EP Technologies is a leading global developer of minimally invasive, cost effective catheter-based products to diagnose and cure patients suffering from tachyarrhythmias (chronic rapid heartbeats).

- responsible for the management of a 5-person mechanical assembly team
- conducted ongoing evaluation of manufacturing procedures and practices
- assisted in the development of several innovative production techniques and practices
- scheduled production, set and met deadlines and maintained product documentation
- projects include the **Blazer II XP Cardiac Ablation Catheter**, and the **EPT-1000 XP Cardiac Ablation Controller**

GENERAL EXPERTISE

- **strong performance of core engineering tasks**
 - ability to apply appropriate prototyping and manufacturing processes to ensure a high level of efficiency
 - strong knowledge of mechanism design and analysis, material properties, handbook stress analysis
 - shock and vibration effects, EMI and ESD design parameters, thermal and acoustic design principles
 - Geometric Design & Tolerancing (GD&T), and cumulative tolerance analysis skills
- **domestic and international manufacturing**
 - supplier qualification, vendor management and manufacturing liaison skills
 - manufacturing process design and documentation (assembly procedures, test plans, etc.)
 - design and assembly optimization, cost reduction, and on-going manufacturing support
- **Design Verification, Documentation, and Usability Testing**
 - background in data acquisition, Design Verification Test (DVT), and CAD analysis tools
 - solid foundation in documentation standards (various ANSI & ISO standards apply)
 - EMC testing, Radiated Emissions and Conducted Immunity testing, thermal and acoustic testing
 - product qualification and certification agency requirements (UL, TUV, FCC, CE, FDA, etc.)
- **Project Management**
 - proven ability to effectively deploy complex mechanical projects within a multi level supply chain
 - strong communication, negotiation, collaboration, time-management, and leadership skills
 - develop product specifications, schedules, Cost-of-Goods (CoGs) analysis, feasibility studies, etc.

EDUCATION

9/86 – 6/87 Graduate 1987 De Anza College, *Cupertino, California*

ACHIEVEMENTS / INTERESTS

Avid bicyclist, occasional runner.
Competitive Inline and Speed Skater - Member OMMRA. and GGSS
SCCA Sololl OSP class autocross racer.

1987 Recipient De Anza Outstanding Academic Achievement Certificate, *Cupertino, California.*
1987 Recipient Elks National Foundation Vocational Grant, *Cupertino, California.*
1982 – 1984 Division II Semi-Professional Soccer player, *British Columbia, Canada.*
1982 – 1983 Member Provincial Track and Field Team, *British Columbia, Canada.*