

C U R R I C U L U M V I T A E

Michael George Davis

IDSA

**Mechanical Design and Engineering, Industrial Designer,
Strategic Research and Development Engineer
Manufacturing Engineering for New Products**

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QUALIFICATION HIGHLIGHTS

Vision:

After 40 years in design, the vision becomes more strategic, long term, next big thing in a sketch. The goal is to provide clients with that vision. Where is your company going? There is an oracle of the future out there for you to discover.

Strategy:

Simple advisory role in driving the future of man machine and product. Hundreds designed, a few mentions here of products and innovations by Michael Davis:

Innovation:

1. First 32 bit desktop touch screen portable computing product design, 1978, 1720A (currently in the Computer History Museum) John Fluke Manufacturing,
2. Scientific research and development spectrometers, x-ray, ICP, 1982. Bausch & Lomb ARL. (Los Angeles, Boston, Ontario, Canada, Luton, England, Ecublens, Switzerland).
3. First modern auto alarm design, 1984 VSE Inc.
4. Early security systems for airport and port inspection systems, 1985 Sciex/British Aerospace.
5. Early M10 environment robotic wafer fab ovens, 1986, Tylan Corp.
6. Patented Tristar Headset (utility and design), 1992. Plantronics.
7. Explore the Future, concept development, personal communications hand held/head worn devices, 1993. Plantronics.
8. Early hand held bio injection pneumatic device design 1995, Bioject.

9. World standard motion and security lighting design, 1998. Heath Zenith, Lowes, Home Depot, Ace Hardware.
10. Pioneer technique development using Solid Modeling tools for industrial design, SolidWorks World Conference, 2000.
11. Patented head worn dental and medical splash protection design, 2001, Opdop.
12. First touch screen smartphone concept, 2002, Headstuf Product Development (publicly shown five years before the iPhone).
13. Extreme lift vehicle, hydraulics, fuel system, cab design, 2007, Martinez & Turek.
14. Theater reveal mechanical and industrial design concepts, Avatar Flight of Passage, 2012 Walt Disney Imagineering,
15. Manufacturing machines, x-ray tubing inspection system, 2012 Willick Engineering,
16. Early development of LED super bright cinema lighting products. 2012-2015, Mole Richardson Company.

Education Level

- San Jose University, **Bachelor of Science Industrial Design.**
- **Behavioral Science**, San Jose State University Minor.
- **Tutorials Honors Program**, San Jose State University GE.
- High School: James Lick HS, San Jose, CA, HS diploma from International School, Bangkok, Thailand.
- **Advanced SolidWorks training certificates.**
- **Various managerial programs, behavioral management in the corporation.**

References are available upon request.

PROFESSIONAL EXPERIENCE DETAIL

12/14/12 to 11/13/15,

RESPONSIBILITIES OF MICHAEL DAVIS AT MOLE RICHARDSON COMPANY, Hollywood, CA and Pacoima, CA.

•This summary of my work for Mole-Richardson Company reveals multiple projects while I worked at Mole-Richardson from the end of 2012 to the end of 2015. My title at the company was Senior Research and Development Engineer and I had project responsibility for these products which included mechanical engineering, industrial design (limited), enclosure

prototypes management and release of engineering fully detailed documentation packages to drafting, all under the direction of the VP Engineering.

- PROJECTS: 894 200W JUNIOR LED FRESNEL, 896 400W STUDIO JUNIOR LED FRESNEL, 934 900W SENIOR LED FRENEL, 958 200W AND 959 400W LED SOFT LIGHT PLATFORM (1K, 2K SOFT LIGHT LED, 1K. 2K VARI-SOFT LED.) 929 900W SPACE LIGHT PLATFORM, (900W SPACE LIGHT LED, 900W VARI-SPACE LED), PANEL LIGHT CONCEPTS.

- The company had a basic policy of maintaining corporate brand image to reflect the strong traditional image established by the founder in the 1930's therefore much of the industrial design influence was restricted by adherence to brand style which includes 88 years of Hollywood movie industry lighting equipment legacy.

- I was also responsible to assist the vice president of engineering (where possible) for new invention and innovation within the product line making recommendations on those topics.

- My responsibilities also included all patent disclosure development and working with patent attorneys developing five or six patents pending.

- In addition to patent development I managed all product safety and inspections by certification organizations such as Underwriters Laboratories, TUV and Intertek Corporation. These organizations certify the safety of all products manufactured by Mole Richardson Company and that those products comply with international standards of CE (European Union) CSA (Canada) and UL (United States) product safety standards. I also acquired new inspection tools for Ground Bond and Hi Pot testing.

- Related to those activities I was the Mole Richardson corporate representative for PLASA (Professional Lighting and Sound Association) Electrical Power Working Group. This organization which controls and writes standards for ANSI, ISO and UL meets four times a year at various locations around the country.

3/15/2012 temp contract with Disney Imagineering to develop mechanical concepts using industrial design skills for an upcoming Disney ride, Avatar VR ride. Contract firm was Peak Technical.

4/15/2011 to 9/2/2011; temp project, Willick Engineering, Santa Fe Springs, CA; Large actuated system design of QA system for X-RAY analysis of manufactured parts. Primary design engineer.

4/3/2008 - 12/14/2012 My company, Headstuf Product Development San Bernardino, CA. Industrial Designer, Proprietary Invention Development.

11/5/2007 - 2/12/2008 Martinez and Turek, Rialto, CA. Temp project, Industrial Designer, Product Design Engineer, Heavy lift fly by wire cab controls and enclosures, large weldment assemblies, hydraulic and fuel mounting systems.

10/01/2005 - 10/20/2007 Headstuf Product Development--my own consulting company. Short term industrial design and design engineering projects for clients like Optivus Proton Therapy, Freeman Marine.

8/15 2004 - 9/26 2005 Moldex-Metric Incorporated Culver City, CA. Design Engineer, Industrial Designer, Research and Development, Product Manager, Product Design Engineer,

9/1993 - 8/2004 Headstuf Product Development Dallas, Oregon/LA, California.

Industrial Designer, one man consulting office, hand held and head worn molded parts and assemblies. Bioinjection device for self injection, MS patients, pharmacy test kit for HIV. Morgan Body in PA, Industrial Design concept sets

2/1991 - 8/1993 Plantronics Inc. Santa Cruz, CA, Senior Industrial Designer, Program Manager, invented and administered design development of several headsets, Telco phones, visual impaired phone, focus group planning and design; developed dozens of future concepts for headset and phone products to be focus tested worldwide against my own inventions to validate design. Managed and assessed contractors with administration of headset design, offshore tooling and design. Managed and assessed contractors with administration human factors program (\$200k budgeted project), concept and execution, data collection on human ears, human factors program direct and contract management. Primary on two patents (utility and design); Tristar line of headsets. Trilaterally mounted ultra-stable over the ear headset. Support kernel concepts for other patents.

6/1989 - 3/1991 Harris, Dracon Division Camarillo, CA Direct Supervisor mechanical engineering, industrial design and contract personnel, and hired design support as required, direct line manager over five people. Designed and developed several injection-molded products, industrial design and engineering development. Banjo line tester. industrial design, audio test product concepts, ATT intercom systems. Telcom Lineman's test phones.

6/1983 – 8/1989 M Davis & Associates, (MDA design) Hawthorne and Oxnard Shores, CA. Founded M. Davis & Associates, Seven employees: three designers, two staff, and two consultants, leased a 1500 square foot building in Hawthorne, (Across from Northrup, now Space-X), managed payroll, prospect marketing, vendor interface, all aspects of running a small consulting firm. Created and administered product designs for numerous manufacturers in Audio, Telco, Consumer, Industrial Equipment, Laboratory Instrumentation, Test Equipment, Medical Equipment, Exhibits, and Graphics. Sciex/British Aerospace, Tylan Corporation, Interface Technology, Vehicle Security Electronics, Amrex Medical, Lang Systems, RTS Intercom Systems, ESP Augut, Security Control Systems, Kuschall of America.

3/1981 - 6/1983 Bausch and Lomb Applied Research Laboratories, Sunland, CA Senior Industrial Designer, Inductively Coupled Plasma Spectrometers, Sunland CA, (corporate base). Multinational product management and development industrial design, US-Sunland, CA; Woburn, MA; Ottawa, CANADA; Ecublens, CH, Luton, England. Scientific equipment, commercial elemental analysis equipment. XRAY Quantometer automated fluorescence systems, Industrial Design and design management ARL, Ecublens Switzerland. XRAY Diffraction Systems, Industrial Design and design management ARL, Ecublens Switzerland, Luton, England. Hydride Generator Industrial Design and design management, ARL, Luton England. XRAY Diffraction Systems, Industrial Design and design management, Diano Corp, Woburn MA. SEM (Scanning Electron Microscope) Industrial Design and design management Semco, Ottawa, Canada. ICP one meter spectrometers, Czerny-Turner and Paschen-Runge configurations. Industrial Design and design management, ARL, Sunland, CA.

Portable Arc and Spark inspection systems, Industrial Design and design management ARL, Sunland, CA. Corporate Identity Development Worldwide installations, ARL Bausch & Lomb.

6/1977 - 1/1981 John Fluke Manufacturing, Everett, WA Industrial Designer, staff, project Industrial Designer, test equipment, systems, touch control screens, molded control panels, complex snap-on molded parts and assemblies. 8420 systems DMM, Molded front panel development, control panel graphics, prototypes. 1720A Instrument Controller, a 32 bit bubble memory, touch screen 5 ¼ inch rack width portable instrument controller, structural foam enclosure parts, keyboard, first low profile keyboard, circa 1978.

1975 – 1977 Experience Pre Graduation, San Jose State University.

I worked as a part time **program manager**, signage designer for the County of Santa Clara, Signage Design and Administration, GSA Architectural Division. Managed and administered signage for 405 public county buildings did all design, corporate graphics, implemented standards, and corporate signage identity proposal for signage standards accepted by County of Santa Clara Architectural Division, GSA, developed exhibits for use in public information of county services for display in public spaces, county fair, etc.

Paid **Industrial Design Intern, Support builder, Hubble Telescope Concept Exhibit** for Congress—a six screen back-projected room with slides and film, star field dome for a star projector in the main room, display examples of telescope and targets in model form, knockdown design for shipping by semi to Washington DC. Learned the basics of set design, portable exhibit development

Worked as a **CNC Machinist** graveyard shift and summers for FMC Corporation, large aluminum Armored Personnel Carrier vehicles helped me pay my own way through school.

Ampex Corporation, Industrial Design Intern.