

## RESUME of David Lloyd

### Electronics Engineer - Certified College Instructor – Wedding Photographer - Digital Photography Tutor

2523 Brunswick Dr. Santa Maria, CA 93455

Home/Ofc: (805) 938-1460

#### SUMMARY

Responsible team player with over 35-years of professional experience in a wide variety of technical positions and environments. Efficient, well organized, analytically resourceful and technically inventive, Engineer, Photographer, Web Designer and Master's Level Certified College Instructor.

#### ACCOMPLISHMENT HIGHLIGHTS

- Award Winning Photographer: Digital and Film - Artistic Wedding Photography - Portrait Photography - Commercial Photography - Fine Art Landscapes and Panoramics
- Professional Tutor: Digital Photography - Digital Photography Image Processing & Workflow - Adobe Photoshop 7.0 and Adobe Camera RAW file conversion. PC and Mac
- College Instructor: Artistic and Technical curriculum in Digital Photography, Adobe Photoshop Web Graphics - Web Design - Fine Art Photography - Graphic Layout - Graphics Design.
- Fine Art Seascapes: Special Edition Series chronicling Landmarks of the Central Coast of Ca.
- Patented Modular Electronic Flash System: Designed for Vivitar Corp., placing them well ahead of the industry in professional electronic flash equipment. U. S. Patent # 4, 266, 163.
- Electronics Engineering: Switch-Mode Power Converters, Inverters and Class D Amplifiers.
- Successful Leadership: Managed a select team of highly skilled design engineers in a multi-million dollar development project to design and manufacture four (4) dual axes, Mobile Tracking Cine Platforms. This precision high-tech product was successfully utilized as part of an early warning reconnaissance tracking system, recording on high speed Cine cameras and Video contributing significantly to National Defense and future design contracts.
- Power Operational Amplifier Module: Design and development of a compact state of the art 300 watt Power Op Amp used to drive the platform of an In-Air Flight Correcting Missile Guidance System.
- Servo Drive System: Design of a 100-watt pwm power amplifier and servo for a linear displacement auto focus table developed for use with 35mm high-speed motion picture cameras for reconnaissance tracking of airborne targets, for the analysis of reentry flight trajectories of the Nasa Space Shuttles.
- UPS Systems: Design and development of medium power UPS employing NiCad, NiMeHyd and Sealed Lead Acid batteries and their respective fast charge and fuel gage management systems.
- Design of high frequency DC to AC inverters for 20 Hz sine wave Telecom ring generation. Award Winning Photographer: Digital and Film - Artistic Wedding Photography - Portrait Photography - Commercial Photography - Fine Art Landscapes and Panoramics
- College Instructor: Development of Artistic and Technical curriculum in Digital Photography, Web Site Authoring and proficiency in Adobe Photoshop 5/5.5.
- Workshops: Develop curriculum and Instruct Digital Photography Workshops at Arrow Camera
- Fine Art Posters: Special Edition Series chronicling Landmarks of the Central Coast of Ca.
- Web Graphics - Web Design - Fine Art Photography - Graphic Layout - Graphics Design.
- Innovative Design: Switch-Mode Power Converters, Inverters and Class D Amplifiers.
- Patented Modular Electronic Flash System: Designed for Vivitar Corp., placing them well ahead of the industry in professional electronic flash equipment. U. S. Patent # 4, 266, 163.
- Successful Leadership: Managed a select team of highly skilled design engineers in a multi-million dollar development project to design and manufacture four (4) dual axes, Mobile Tracking Platforms. This precision high-tech product was successfully utilized as part of an early warning reconnaissance tracking system, contributing significantly to National Defense and future design contracts.
- Power Operational Amplifier Module: Design and development of a compact state of the art 300 watt Power Op Amp used to drive the platform of an In-Air Flight Correcting Missile Guidance System.
- Servo Drive System: Design of a 100-watt pwm power amplifier and servo for a linear displacement auto focus table developed for use with 35mm high-speed motion picture cameras for reconnaissance tracking of airborne targets, for the analysis of reentry flight trajectories of the Nasa Space Shuttles.
- UPS Systems: Design and development of medium power UPS employing NiCad, NiMeHyd and Sealed Lead Acid batteries and their respective fast charge and fuel gage management systems.
- Design of high frequency DC to AC inverters for 20 Hz sine wave Telecom ring generation.

## SPECIAL ACHIEVEMENTS

- 2003 Recipient of "Best Print of the Year" & "Best Digital Print" awarded by Gold Coast Professional Photographers Association, an affiliate of PPC and PPOf A
- Authoring of a technical manual for Hewlett-Packard's 48SX Calculator, entitled, "Creative Engineering Techniques with the Hp 48SX Expandable Calculator." D.L. Engineering
- Recipient of Limited Edition Eagle Award for outstanding achievement in New Products conception, design and development. Vivitar Corporation.
- Awarded U.S. Patent # 4, 266, 163 for the design and development of an Incident Metering Flash Control System utilizing Auto-Thyristor concepts. Vivitar Corporation.

## PROFESSIONAL EXPERIENCE

Professional Digital Photographer: David Lloyd & Infocus Photography Santa Maria, CA 1999 - Present  
Artistic, Illustrative, Traditional and Photojournalistic Wedding Photography and Portraiture. Commercial Photography

Professional Tutor and Speaker: Santa Maria, CA 2000 - Present  
Tutoring for Professional Photographers and Web Designers. Instruction in Digital Photography, Color Management, White Balance, Adobe Photoshop and Camera RAW image management and conversion. Instruction in Efficient Digital Workflow for Mac and PC. Professional Instruction in Web Design, Development and Management.

Computer Art: Specialized Techniques Santa Maria, CA 1999 - Present  
Development and utilization of Adobe Photoshop for the development of Artistic renderings of Digital images into a stylized Water Colour or Impressionistic Painting.

Vocational College Instructor: Santa Barbara Business College Santa Maria, CA 2001 - 2002  
Designed and taught Web Master's Curriculum covering the basics of HTML to advanced ASP scripting; including Adobe GoLive and Photoshop, Macromedia Flash and DreamWeaver.

College Instructor: Allan Hancock College Santa Maria, CA 1998 - 2001  
Taught classes in Digital Photography and Electronic Imaging based on translating the traditional Photographic Film medium into the realm of computers. Instruction is based on the utilization of Adobe PhotoShop as a basis for image manipulation, simulation of photographic techniques and artistic expression. Course includes Digital Photographic Principles Graphic Design and layout of Web Pages and

Photoshop Instructor, Web Designer, Individual Tutoring San Luis Obispo, CA 1997 - 2000  
Internet: Private and Commercial Web Site Design, Tutoring and Instruction for MacTeacher: "Preparing Images and Animations for the Internet with Adobe Photoshop and Image Ready – Web Design Instruction with Adobe GoLive, Macromedia Dreamweaver Private Individual tutoring in PhotoShop, Technical, Product and Fine Art Photography for Web, private and commercial accounts. <http://www.lightvalve.com>

Consultant, DBA David Lloyd Engineering Santa Maria, CA 1997 - 1998  
Engineering: Design and development of 1700 watt PFC Boost converter for 210Vdc Power Bus for Helicopter Radar Power Systems. Responsible for Circuit and Magnetic Component Design, Functional Testing, Schematic Entry, Parts Lists and Worst Case Analysis.

Staff Engineer, Lockheed Martin Astro-Space East Windsor, NJ 1996 - 1997  
Des/Dev of Switch Mode Power Supplies for Communications Satellites for outer space deployment. Responsible for Circuit Design, Functional Testing and Worst Case Analysis. Project Contributions included: Mars 98-EPC, A2100-PRU EPC and the conception, design, development and analysis of I/O Magnetics Isolation techniques for Switch-Mode-Power-Converters. IR&D.

Senior Electronics Engineer, Hypercom, Inc Phoenix, AZ 1989 - 1996  
Responsible for the design, development and analysis of switch mode dc/dc power converters, telco line current generation and interface, Inverter based 20 Hz square and sign wave ring generators, U.P.S. battery back up, NiCad, Ni/MH and Lead Acid charge management systems. Performed all of the associated tasks of bringing new product designs to high volume manufacturability specifications for desktop and portable Point of Sale Credit Card Terminals. Also served as Liaison for overseas manufacture of high volume magnetics and Liquid Crystal Display products.

[Electronics Engineering Manager, Photo-Sonics Inc.](#) *Burbank, CA* 1986 - 1989  
Technical Management of the Electronics Engineering Team for the Des/Dev of servo controlled power systems for; High Speed Film Cameras and Dual Axis Mobile Tracking Platforms. Successful leadership of a select team of design engineers in a multi-million dollar project to design and manufacture four (4) dual axes mobile tracking platforms fitted with; high speed thermal and video imaging systems, high speed-large format film cameras and on board ranging radar. This precision high-tech product was successfully delivered as part of an array of early warning reconnaissance tracking stations, for National Defense.

[Senior Project Engineer, Teledyne Camera Systems](#) *Arcadia, CA* 1985 - 1986  
Design and development of airborne, high-resolution B&W and RGB color video cameras and auto-aperture servo systems for reconnaissance flight recording. Other duties included the preparation of dichroic color illumination apparatus for color alignment, writing and preparation of production line testing procedures.

[Senior Electronics Engineer, Singer/Librascope](#) *Glendale, CA* 1982 - 1985  
Des/Dev of Mil-Spec. 250 watt +, multi-output switch mode power supplies and power magnetic components for use in Military Tactical Field Equipment, Large Area Neon-Plasma Display Panels and Submarine Fire Control Systems. Duties included all phases of circuit design and analysis, breadboard fabrication and functional testing to appropriate Mil-Standards, PCB Layout, magnetic component; design, fabrication and testing, preparation of parts lists, schematics, project scheduling and worst case analysis.

[R & D Assoc., Litton Guidance and Control Systems](#) *Woodland Hills, CA* 1979 - 1982  
Responsible for assisting in the testing of practical and experimental Ring Laser Gyros for solid state flight navigation systems. Design of HeNe laser cathode, accelerated life testing equipment, high frequency, 60 MHz amplifiers and battery operated laser plasma Switch Mode power supplies.

[Assoc. Engineer / Photography Inst., Vivitar Corporation](#) *Santa Monica, CA* 1976 - 1979  
Responsible for New Product Development for the amateur photography market, resulting in the concept and design of a unique Modular Component Electronic Flash System critiqued by Bert Kepler of Popular Photography Magazine and the granting of U. S. Patent # 4, 266, 163 for Electronic Flash Control. Designed and developed an extensive series of prototypes, including; Auto Thyristor strobe delay, automated darkroom timer/exposure system and portable electronic flash brackets. Principle photographic instructor for the design engineering team.

#### [Education - Master's Certification](#)

[Electronics Engineering:](#) DeVry Institute of Technology 1970 - 1972  
[Photographic Arts:](#) Art Center-College of Design 1977 - 1979  
[Equivalency Certification for the Disciplines Requiring a Master's Degree](#) - Allan Hancock College 1999  
[College Level Instructor for: Adobe PhotoShop - Photography - Digital Photography - Web Page Design](#)  
[Certified by the State of California as Instructor for postsecondary and Vocational Colleges. CERT No. JSTM-4RGVB2000](#)