



**Electronics**

**Software**

**Optics**

**Mechanics**

**Design and  
Manufacturing  
Since 1984**

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DMK Engineering Inc. was originally formed as a proprietorship in July of 1984 and was incorporated in the State of California in 1998. David Kramer is the President and Chief Engineer and is assisted by several part-time employees. A network of subcontractors is actively maintained consisting of skilled individuals with a wide variety of technical talents. Such skilled personnel greatly expand the technical design and manufacturing capabilities of DMK Engineering Inc. while keeping overhead costs to a minimum. These flexible resources allow high quality designs with rapid turn-around times.

Mr. Kramer has over 28 years of design and manufacturing experience in commercial, industrial, medical and defense related products. His background includes analog and digital circuit design, motion control, servo systems, embedded microcontrollers and PCs, firmware and software, optical sensors and sources, and electro-optical systems.

The DMK team is capable of designing and/or manufacturing simple and complex electro-optical-mechanical systems quickly,

efficiently, accurately, and cost-effectively. Bring your ideas to us; we'll give you a proposal outlining the project tasks, schedule and cost.

Mr. Kramer holds several U.S. patents including: #4,899,045, Multiple Channel Fiber Optic Continuity Test System, #5,504,306, Microprocessor Controlled Tankless Water Heater System, #5,838,430 Dual Beam Laser Device for Linear and Planar Alignment, #5,928,546 Electrical Resistance Cooker and Automatic Circuit Controller and #6,833,788, Intrusion Detection Radio Appliance.

Mr. Kramer holds a Bachelor of Science Degree in Electrical Engineering from Rensselaer Polytechnic Institute and a Master of Science Degree in Electrical Engineering from the University of Southern California.

Please contact us with your specific design and manufacturing requirements. We will be happy to provide you with a fast, low cost quote.

## Products Developed: (Partial Listing)

- Ultra-Low Power Auto-Tracking Retro Reflector
- Stereo Eye-Tracking Gimbal
- Tracking Window and Dome for Gyro Stabilized Camera Platform
- 10-Axis Periscope/Zoom/Focus/Iris Lens System for Aircraft Film Camera
- Video Overlay Graphic System
- Passive IR Wireless Security System
- 3-Axis Position Sensing Large Structure Monitor
- IR Lens Athermal Focus Controller
- UV Light Source Controller
- OC-12 (622Mbps) Fiber-Optic Transceiver
- Aircraft Camera Gimble
- Laser Guidance System for Tunneling
- Hi Accuracy Hg Vapor Detector
- Laser Beam Angle and Position Tracking System (patented)
- 3D Microscopy Lighting System with Remote Control
- PID Controlled Water Heater
- Client-Server (UNIX) Gaming System with Automatic Coin Detection and Graphical User Interface
- Infrared Lens Controller with Athermal Compensation
- True RMS Reading Vibration Sensor
- Stereo Machine Vision System
- Microprocessor Controlled Electric Hamburger Cooker
- In-Vitro Blood Gas Analyzer
- Non-Contact Temperature Measurement System
- Auto-Ranging (6 Decade) Digital Radiometer with RS-232 Interface
- Fiber-Optic Discontinuity Monitor
- Precision Controlled Scanning Interferometer
- Feedback Controlled Laser Diode Driver
- Optical Micrometer ( $\pm 0.001$  inch accuracy)
- Duo-Lateral Position Sensing Detector
- Hand-Held Programmable ASCII RS-232 Terminal
- Microwave Antenna Radiation Pattern Measurement System
- Microprocessor Controlled Programmable Trigger Delay and Waveform Generator
- Wide Bandwidth Photodiode Amplifier (10KHz - 1GHz)
- DC Coupled 5MHz Photodiode Amplifier with  $\pm 15V$  Bias
- Wide Dynamic Range Transimpedance Amplifiers (10 femtoamps - 1 milliamp)
- Electronic Aircraft Cockpit Instrumentation Displays
- Aircraft Synchro Signal Digitizer
- 64 Channel Analog Signal Multiplexer with Fault Protection
- Thermostatically Controlled Automatic HVAC Register
- Microprocessor Controlled Dry Polymer Activation and Mixing System
- Keyboard Scanner/LCD Dot Matrix Display with Backlight
- Infrared/Passive Motion Detector
- Ultrasonic Animal Repellent
- Resistive Divider Calculator Program
- Cable TV Signal Monitor
- Automatic Wire Stripper
- Pneumatically Operated Contact Crimper
- Microprocessor Controlled Wire Marking System
- Torpedo Prelaunch Optical Data Link
- Active Sonar Diver Locator
- Seawater Particle Flux Analyzer
- Low Cost Feedback Stabilized Sample Heater
- Feedback Stabilizer for Mercury Lamp
- Power Supply for Mercury Lamp
- Stabilized UV Source for Immuno-Assay Analyzer
- Stabilized Light Source for In-Vitro Blood Gas Analyzer
- High Power Fiber-Optic Coupler
- Side Firing Fiber-Optic Surgical Probe
- Output Stabilized Ho:YAG Surgical Laser
- Microprocessor Controlled Dental Laser System
- Ocular Characterization System
- Portable Optical Interrogator
- Photon Counting Scatterometer
- High Power Multiple Wavelength Laser Filter Test Bench
- Low Cost Portable Spectrophotometer
- OD5 Computer Controlled Spectrophotometer (300 - 1000nm)
- Portable Laser Joulemeter
- High Power Fiber-Optic Test Set
- Infrared Laser Diode Fiber-Optic Test Set
- Visible Laser Diode Fiber-Optic Test Set
- Laser Pulse Forming Network
- High Voltage Capacitive Charging Power Supply
- Pulse Discharge Trigger Circuit
- Telescope Controller for Remotely Piloted Vehicle
- Ejection Seat Sequencer
- High Energy Detonator Firing Unit
- Multi-Channel Fiber-Optic Continuity Test System
- Multi-Channel Laser Ordnance Firing Unit
- High Energy Alexandrite Laser for Optical Countermeasures
- Tunable Alexandrite Laser for Isotope Separation
- Double Pulse Dye Q-Switched Nd:YAG Laser
- Nd:YAG Laser Rangefinder