



www.CalyxRE.com

CALYX RESEARCH AND ENGINEERING, LLC.
CALYX TECHNOLOGIES
CALYX AUTOMATION

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2116 Rock Creek Road
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FAX & VOICE: (540) 898-2620

Emergency: (540) 220-3772

Calyx R&E LLC is a one-stop research, development and manufacturing (instruments, detectors and machinery sizes from hand held to a ship) handles projects from concept to implementation; post-production support; modifications of and adaptations to existing facilities; development of specialized instrumentation, and development of custom technologies for all industries, such as Printing, Textiles, Agriculture Production, Power generation, Transportation, Ships and Marine, Ultra high pressure water jetting, Product security, Document security, RF ID, and much more.

Calyx Computers and IT division is providing Setup, Support and IT (Information Technology) for small and large offices including Hardware and Software.

Calyx is a North American based company with facilities and services worldwide.

Covering:

Physics, Optics, Chemistry, Electronics, Computers (hardware and software), Vision Systems, Information Technology, Spectroscopy, Product security and Document security technologies, RF ID (Radio Frequency ID), Analytical Instrumentation Interpretation and Development, Biomedical, Thermodynamics, Semi and Full Automation, Computerized Numeric Controls, Hydraulics, Robotics, Mechanics.

Operations:

In most cases, final development is completed at the clients' facilities in order to achieve desired results in a timely and cost-effective manner. After project completion Calyx will maintain and support the system upon request. Machinery, Instruments, Components or any product manufactured by Calyx (a ISO 9000 company) is completed in Calyx facilities and supplied with UL, CE, approved (unless warning labeling and instructions are clearly stating the condition) Other certification can be achieved upon request.

Instruments for: Physics, Optics, Chemistry, Biomedical and Research.

Research, development and manufacturing of detection systems, instruments and techniques related to Material Properties, Material Detection, Spectroscopy, Fluorometry, Liquid Chromatography, High Pressure Liquid Chromatography, Capillary Electro Fluorosis, Flow Cytometry, Stopped flow, Acoustics, Magnetic Resonance Imaging, Thermodynamics, Circular Dichroism, Industrial and Lab interlaced Imaging Systems, Analytical and Authentication Instrumentation, etc.

Chemistry:**Materials** (organic, inorganic, nonmetallic)

Design and/or manufacturing of materials and molecular modeling for new or modified chemical reactions that relate to specific applications. Development of detectable materials for use in the biomedical or industrial applications and integration with appropriate detection devices. Extensive knowledge of materials can be related to applications in the coatings, plastics, semiconductor, and other industrial areas and can be quickly and easily implemented to solve clients' problems, improve processes, or develop new products.

Electronics:

Design and production of analog and digital circuits, PCB, assembly and testing as surface mount, thru hole, and bread board. For most applications as Heavy Industry, Laboratories, Hand Held Devices and Prototype **SUPPORTING ALL SECTIONS MENTIONED** and more.

Computers (hardware):

Support of PC/AT base systems, networking, and handshaking between hardware for automation. Support small and large **offices** including Hardware, Establishing network and day to day support as needed. Modifying and upgrading existing systems even if there is only single computer in the entire facility.

Computers (software):

Support Programming in C, C++, Visual C++, MS Basic, Visual Basic, Oracle, AutoCAD/CAM, 6MB, MCL, Master CAM Access, Excel and most Microsoft products. Support IT (Information technology) for small and large offices including Software, and Training.

CNC (Computerized Numeric Controls):

Providing Technology for Machining Centers (vertical and horizontal) of any size including automatic pallet changers and production up to six axis.

Design, Construction and Supply of Jigs and Fixtures for mass production, inspection and QC. Including Mechanical, Hydraulics, Pneumatics, Electronics, Optics and Vision systems.

Design and construction of machines for specific needs.

Support Programming of all G-code and Macro programming for machines including Fanuc, Siemens controllers, Mori-Seki, Hitachi, Makino, Matzura, Bridgeport, Haas and many more using MasterCam, or pure code.

Robotics:

Providing Technology for single' arm, multi' arm robots, and robot array network for any industry. Design, Construction and Supply of Jigs and Fixtures, including Mechanical, Hydraulics, Pneumatics, Electronics, Optics and Vision Systems.

Mechanics:

Design, construction, manufacturing, and modification of production lines. Design and construction of machines for specific needs.

Establishing complete or partial facility for Production, Automation, Research, Transportation, Service and more.

Design, Construction and Supply of Jigs and Fixtures for mass production, inspection and QC. Including Mechanical, Hydraulics, Pneumatics, Electronics, Optics and Vision Systems.

Biomedical:

Use of materials and modifications of existing equipment as well as new equipment development for use in PDT (Photo Dynamic Therapy), Genome and other biomedical applications.

Worldwide Application:

In addition to the US, Calyx has supplied and is supplying products and services to clients in Israel, France, Switzerland, Brazil, Bulgaria and other countries.

Calyx R&E is growing and accepting new clients worldwide.



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OUR PEOPLE



Dr Haim Primo PhD. (President)



Dr Ron F PhD. (Vice President)

**Additional members and personal specialties list is available,
Upon request for project area of specialty.**



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