

Why Use An Outside Engineering Firm?

There are as many reasons for using an outside engineering firm. Here are some examples;

- Some companies may not have or need a full time engineering staff. For these clients Synergy Technology is their engineering department, providing services and expertise only when the requirement exists.

- Other companies may not have the engineering expertise on their staff for a specific task, especially if they don't routinely have a need for those services. These clients will have Synergy Technology perform specialized tasks such as Finite Element Analysis or Solid Modeling rather than invest the time and money to have this capability on staff. When designing a component for a specialized process like injection molded plastics, using Synergy Technology's familiarity with the details of such designs will produce a part in less time, and provide better optimization in the areas of component cost, performance, and integrated features.

- Often, companies find their existing staff a little short handed for a temporary period of time. Hiring additional people won't help in the short term, and may not be necessary in the long term. Here Synergy Technology can supplement their current staff to overcome the shortage.

- At times, a little advice or a fresh perspective is all that is needed. In these situations Synergy can provide consultation on topics within its area of expertise.

- Another use of an outside engineering firm is to work on projects not in the main stream, but are suffering from lack of attention. This may be a head start or some preliminary work on a new project. Synergy Technology can provide the opportunity to apply a concurrent effort to these projects without disrupting the priorities of the present staff. Many situations may arise where an outside engineering firm is the answer. Synergy Technology wants to help meet your requirements with a mixture of specialized services and general engineering design capabilities.

STAFF

Direct Staff:

Full time Synergy Technology employees:

Ray Bryan, P.E.
President
Director of Engineering

Trisha Ruby
Mechanical Engineer
Department Manager

Jim Lovell
Electro-Mechanical Designer

Megan Oehlert, P.E.
Mechanical Engineer

Dick Morrison
Product Design Engineer

Frank Ferris
Project Specialist

Tim Grosland
Mechanical Designer

Co-Staff:

Employees shared with Synergy Technology's electronics sister company, SynapTec:

Richard Hicksted
Electronic Engineer
Department Manager

Mike Spahr
Electronic Specialist

Stefan Oswald
Electronic Technician

Adjunct Staff:

Part time employees of Synergy Technology used for special projects:

Dave Loar, P.E.
Electronic Engineer

Pete Ross, P.E.
Mechanical Engineer

Subcontract Staff:

Specific subcontractors under contract to support Synergy Technology's clients and projects:

Dr. Bill Avery, P.E.
Electronic Engineer

Russ Bradford
Software Engineer

Wayne Green
PCB Design

Bruce Kaufman
Transformer Design

Jack Sala
Mechanical Design

Mat Stein, P.E.
Mechanical Engineer

Others:

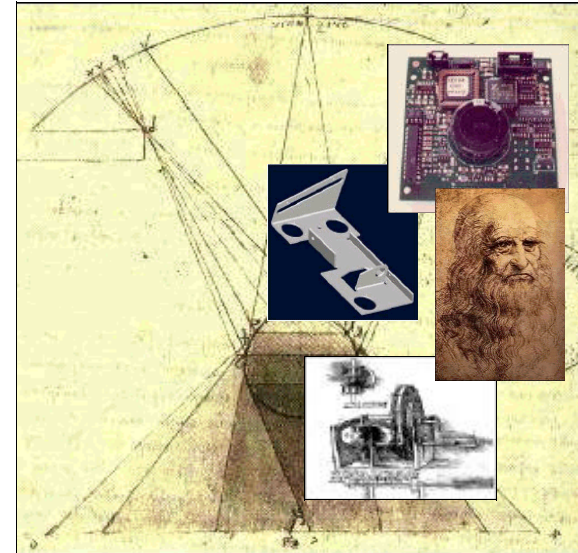
Bob Saunders
Business Development

Synergy Technology's relationships with other service providers allows the assembly of project teams to meet specific requirements. Utilizing associates in many disciplines, projects involving a combination of mechanical, electronics, software, graphics, industrial design, and other attributes can be readily achieved.

SYNERGY TECHNOLOGY, INC.

Working Together to Apply the Science of Engineering

synergy (sin' -er-ji), n
[Greek; *synergos* working together]



An Engineering & Design Services Firm

Now with Business Centers in the Reno and Salt Lake areas

Contact Information

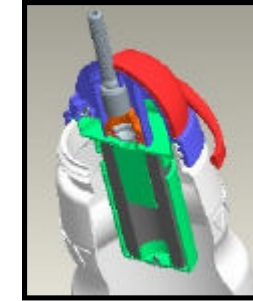
Give us a call at our Reno main office, or contact one of our Staff directly. Visit our website for more information, direct numbers and e-mail addresses.

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info@synergytec.com

RENO MAIN OFFICE:
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Phone: (775) 849-3330
FAX: (775) 849-3331

Who We Are



Synergy Technology, Inc. is an engineering and design services firm. We are proud to provide our clients with high quality engineering services including Product Development, Mechanical Design, Electronic Design, Electronic Packaging

and PCB Design, Finite Element Analysis, Solid Modeling, Drafting, Prototyping, Test Design and Management, Quality Systems, and assist with Prototype and Manufacturing Implementation.

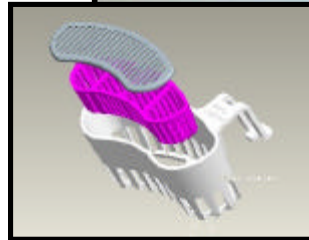
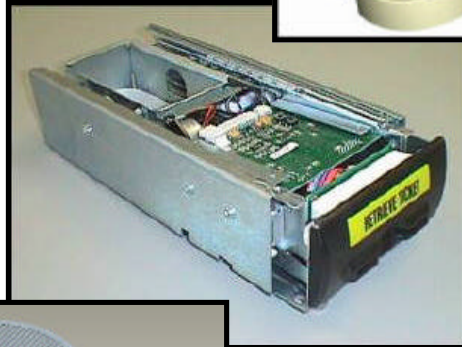
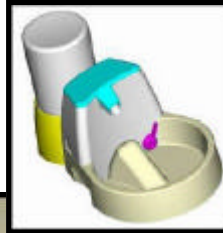
If you are a small product based manufacturing company or start-up, we provide an outsourced turn-key solution to your engineering department needs as an attractive alternative to hiring staff or contracting on a project-by-project basis. For these types of companies, we can provide the entire engineering function, working closely with your management and staff, not just doing a project. This allows small companies to have a large staff and \$M+ engineering capabilities on the budget of an engineer or two. In addition to the design of products, this can include engineering document control, change processes, and product lifecycle management. For other companies, our work product is just as easily integrated and managed in your internal systems. Our staff of mechanical and electronic engineers is providing these departmental services to other local clients.

Imagine having a mechanical engineer one day, an electronic engineer another, and then maybe a PCB designer, without the need to hire three people, having each when you need them, and the ability to use each as much or a little as you need.

Synergy Technology can provide full or partial support in all phases of your product development and design projects. Our clients are involved in the Analytical, Medical, Gaming, Automotive, Communications, Consumer Products, Aerospace, and more.

★ Product Design

Synergy Technology provides product engineering from concept, through system configuration, product specification, detailed component design, design validation, documentation, vendor interaction, procurement, quality control, and manufacturing implementation. Through customer interface and the combining of our mechanical design, electronics and



firmware we are able to provide our clients with tightly integrated systems.

★ Mechanical Design

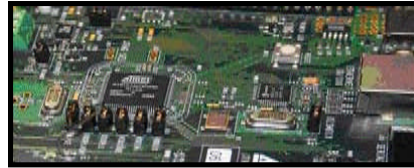
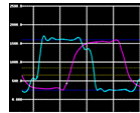
Synergy Technology specializes in the design of mechanical elements, including electro-mechanical and opto-mechanical components. We design components from



plastic, metal and other materials for injection molding, machining, stamping, thermal forming, metal forming, powdered metal, sand casting, die casting, and other manufacturing processes.

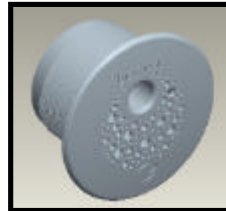
★ Electronic Design

Synergy Technology designs complete electronics packages from simple controllers with mixed technologies to complex microprocessor based systems. Our wide range of application experience includes micro-controllers, power supplies, motor controllers, laser controllers and drivers, antenna design, digital and analog data acquisition, FPGA and CPLD design, remote and proximity sensing, and RF design.



★ Solid Modeling

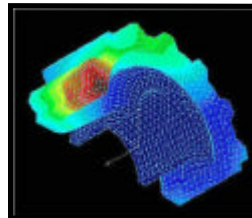
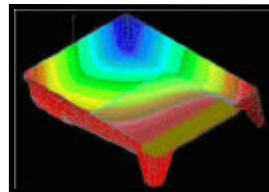
Using Pro/Engineer and SolidWorks for advanced feature based solid modeling, Synergy Technology is able to provide our clients with fully associative feature



based 3D parametric designs. Your parts can be viewed as shaded color renderings, greatly improving visualization. Models can be used directly for rapid prototyping to speed the development cycle.

★ Finite Element

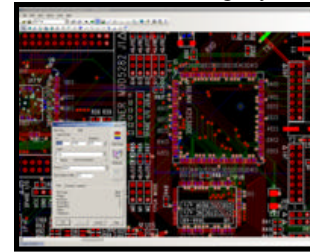
Synergy Technology uses finite element analysis (FEA) to predict performance, evaluate stress and deformation, find temperature, pressure and velocity distributions, and determine possible failure modes for our client's static, dynamic and non-linear, structural, thermal and fluid problems. Detecting limitations of a design prior to component fabrication can reduce development costs.



Synergy Technology also uses FEA to investigate ways of correcting performance problems of existing components found to be inadequate.

★ PCB Design

Synergy Technology designs each PC board for the unique electrical, mechanical and thermal criteria of each electronic package. We develop cost effective products by considering PC board and wiring constraints, the integrity and cosmetic appearance of the enclosure, and selection of the components, materials and processes to provide for a cost effective product.



★ Quality and Regulatory Services

Synergy Technology complements its engineering and design services with a parallel quality and regulatory program. Synergy staff is ready to assist with quality system implementation and regulatory compliance.



★ Product Lifecycle Management

Synergy Technology brings PLM capabilities formerly used only by large corporations to small and medium sized users by providing our clients Windchill based capabilities through a Synergy managed deployment of these product lifecycle tools.



Product development
Collaboration
Design review
Product release
Vaulting
Data retrieval
Check-in/check-out
Change management

Revision control
Product structure
Bills of materials
Access control
Configuration management
Visualization
Work flow



PTC Channel Partnership

We have some exciting news to share for our PTC customers – Synergy Technology has become your Channel Partner for PTC products in the interior western states. As Pro/Engineer users ourselves, we have entered into this relationship with PTC because it offers some unique benefits for our clients.



This represents a new paradigm for PTC to use local providers of professional services as a low-pressure alternative to sales oriented resellers.



PTC Family of Products



Relationships with Business and Academia



University of Nevada, Reno
Statewide • Worldwide



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