

**Michael P. Aprea**  
**21 Mayflower Street, Plymouth MA 02360**  
**maprea57@gmail.com    401 835 3668**

### **Business Objective**

To increase growth and profitability for every client through innovative design for manufacture, creative engineering, and cost effective solutions to your product development needs.

### **Specialized Skills**

Extensive background in computer modeling, Finite element analysis, SolidWorks 3-D parametric modeling. Working knowledge of instrumentation (spectrum analyzer, transducers, accelerometers, load cells), plastic injection molding (small and large volume), insert molding, die, sand and investment casting, metal stamping, forming techniques, and machine shop practices.

### **Professional Experience**

Sakonnet DesignWorks, Inc. (January 1998 through present)  
President

As a practicing engineer, entrepreneur, and inventor involved in the design of consumer, industrial, accessory and medical products. I am an experienced in business development, project management, engineering design, development, analysis and manufacturing creating hundreds of innovative products for commercialization.

Double E Company, Inc., W. Bridgewater, MA. (April 1997 through July 1998)  
Engineering Manager

I effectively managed a mechanical engineering department. I was responsible technically for all product lines, training, work schedules, budgets and reviews of 25 technical personnel. I was directly involved in the purchase and commercial development of a new technology for the company. I hired and managed the team to introduce new products to the marketplace.

Alden Products, Brockton, MA. (March 1995 through March 1997)  
Project Manager

Work with a medical business team to develop advanced connector systems for the medical community. I was actively involved with clients, sales and manufacturing to assure the continuity of design features from concept through to delivery. I co-wrote and won an SBIR (Small Business Investigative Research) program to develop an advanced connector systems for the Navy. I developed many injection molded connectors and cable assemblies for use in critical medical applications, including those used with implanted Left Ventricle Assist Device as an interim device for heart transplants candidates.

Separation Technologies, Inc., Needham, MA. (June 1994 through March 1995)

Project Manager

I worked for this Start up on the development of newly patented technology from MIT to dry based separations, including treatment of coal ash. In this capacity, I managed cross-functional engineering teams and technically supported the design and fabrication of a variety of machines for use in electrolytic environments.

Sippican, Inc., Marion, MA. (March 1985 to June 1994)

Project Engineer

I provided technical research, engineering concepts and proposal writing to enable Sippican to win the first and second phase of an SBIR (Small Business Investigative Research) program to develop a new oceanographic environmental sensor. As a project engineer for new products, I managed the development of design concepts and working hardware, maintaining schedules, controlling costs and leading engineers of all disciplines.

As a lead engineer on the Tactical Surveillance Sonobuoy (TSS) program, I managed the design, development, and testing of the buoys' mechanical functions. Sippican was the only company out of three to successfully demonstrate the Sonobuoy's ability to survive its life expectancy at sea.

### **Bristol Community College (January 1998 through present)**

I am an Adjunct Faculty member, teaching evening courses in mechanical engineering, CAD (SolidWorks) and labs to students within the mechanical engineering department. I continue to assist the Dean of Engineering in creating courses and labs.

### **Education**

HARVARD UNIVERSITY, Boston, MA. Graduated, June 1998. Received a Graduate Certificate of Special Studies in Entrepreneurial Management.

NORTHEASTERN UNIVERSITY, Boston, MA. Graduated, June 1991. Received a Master of Science Degree in Mechanical Engineering concentrating in the mechanics field.

NORTHEASTERN UNIVERSITY, Boston, MA. Graduated October 1981. Received a Bachelor of Science Degree in Mechanical Engineering.

### **Affiliations**

Professional member of the American Society of Mechanical Engineers.

Active member in the MedDev Group in Waltham MA; involved as a Chair for a special Interest Group (SIG) for product development and manufacturing outsourcing.

Active member in the Southern New England Entrepreneurial Forum (SNEEF); Involved as a member of the Program committee creating forums for the organization.

### **Patent Awarded**

Combination Card & Key Holder

United States D6807333

Issued April 30, 2013