



PRODUCT DEVELOPMENT




Stone Mountain Design is positioned to provide full-service, turnkey new product development support to our clients. Our experienced team specializes in creating innovative designs for complex electronic product packaging for demanding consumer, industrial and military markets. Our well-honed development skills enable us to achieve the perfect harmony between quality, cost, reliability and manufacturability for each product. We use electronic file transfer and video conferencing to enhance our collaborative product development, making business with us easy and timely.



With a robust experience base in emerging technologies, prototyping, tooling, testing and verification, Stone Mountain can provide you with a wide range of expert services. Our focus on innovation, process and speed is designed to deal with narrow market windows, fierce global competition and ever-shortening product life cycles.



As a proven global competitor, we are highly experienced in domestic and international trade and regulatory issues and trends. In short, our complete lineup of product development services means that we can provide you with a single-source turnkey solution from the start of your project to its successful completion.



**Concept to reality...
Faster than you imagine!**



stone mountain
DESIGN

2B

STATSCREEN.
Scorecard

Product Development

<p>Mechanical Engineering</p> <ul style="list-style-type: none"> • Complex mechanical and electro-mechanical packaging • Consumer to military products • Unigraphics & Pro/Engineer 3D solid modeling • Numerous file format compatibilities • Finite element analysis (FEA) • Focus on sophisticated and emerging technologies 	<p>Electrical Engineering</p> <ul style="list-style-type: none"> • Hardware design • Receiver/transmitter design • Amplifier design • Antenna design • Analog and digital circuit design • Embedded controller and microprocessor design • Power and battery management 	<p>Software Engineering</p> <ul style="list-style-type: none"> • DSP coding • Micro controller coding • C/C++ programming • Microprocessor coding <p>PCB Design and Layout</p> <ul style="list-style-type: none"> • Surface mount and through-hole • .040" x .020" component size • Multi-layer boards • Ball grid array (BGA) 	
<p>Industrial Design</p> <ul style="list-style-type: none"> • Conceptual sketches • Artwork generation • Human factors engineering • Man-machine interface (MMI) • High quality photo renderings • Block & aesthetic modeling • Color & texture forecasting 	<p>Prototyping</p> <ul style="list-style-type: none"> • Stratasys FDM 2000 • 3 and 4 axis CNC mills • SLA, SLS, RTV, sand, plaster and spin casting capabilities 	<p>Hard Tooling</p> <ul style="list-style-type: none"> • Injection molded plastic, die-casting, sheet/formed metal, keypads, two shot molding • Domestic and offshore suppliers 	
<p>Testing/Verification</p> <ul style="list-style-type: none"> • Full military and consumer testing capabilities <p>Beta Testing</p> <ul style="list-style-type: none"> • Coordination, tracking and recording <p>Regulatory Filings</p> <ul style="list-style-type: none"> • Industry specific requirements, by country <p>Video Conferencing</p> <ul style="list-style-type: none"> • Real time support, hardware installed at client site 		<p>Manufacturing</p> <ul style="list-style-type: none"> • 6,000 sq. ft. on site assembly area • Domestic and offshore assembly and manufacturing capabilities <p>Full Project Management</p> <ul style="list-style-type: none"> • Turnkey including installation, implementation, business processes and user training • Detailed reporting and customer acceptance 	
<p>Market Research</p> <ul style="list-style-type: none"> • International and domestic • Regulatory, environmental and performance specifications • Functionality, ergonomics, interfaces and style • Users, segments and markets • Market conditions, trends and life cycles • Competitive, alternative and emerging technologies 	<p>Market Positioning</p> <ul style="list-style-type: none"> • Determine company and product market positions • Identify market position's business requirements <ul style="list-style-type: none"> > Forecasted revenue and unit demands > Regulatory > Standards > Competition > Sales channels > Launching, promoting and advertising 		

Stone Mountain Design is a wholly owned company offering comprehensive turnkey services including the design, engineering and development competencies vital to new products. We are experts at developing complex and sophisticated electronic products smaller, lighter and faster than our competition.

Our robust product design capabilities include industrial design, mechanical engineering, and electrical and software engineering. Through our own facilities and strategic partnerships, we offer a full compliment of domestic and international manufacturing and production facilities to further enhance our total turnkey solution.

While our core competencies are industrial design, mechanical engineering and product development, we also offer a full range of services for product positioning, market research and beta testing that work to greatly improve user acceptance.