

ABOUT

Swope Design Solutions is a Mechanical Engineering and Product Design firm that specializes in consumer products, medical devices, and robotics. From prototyping complex silicone parts to low-volume production, we have a combined expertise in all areas of a product life cycle.

PROCESS

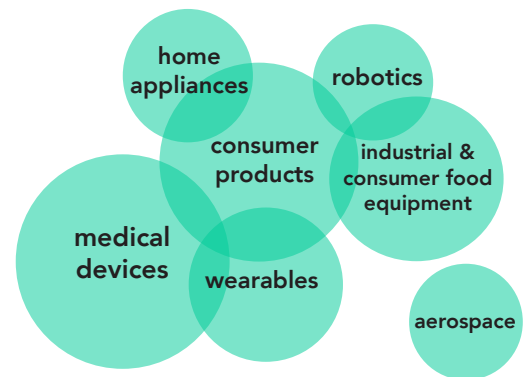
Our process couples engineers who have a wide breadth of design experience with in-house capabilities and equipment to effectively and efficiently converge on solutions for our client's biggest problems. Many engineering firms are too large to rapidly converge on solutions and others too small to have sufficient in-house capabilities. At SDS, we strike the perfect balance between the two creating an ideal problem solving environment.

EXPERTISE

CONCEPT DEVELOPMENT	<p>Research & Development</p> <ul style="list-style-type: none"> IP generation Advanced materials Process development Feasibility studies Rapid Prototyping <p>Product Design</p> <ul style="list-style-type: none"> Proof of Concept development Minimum Viable Product development Injection molded part design Electronics integration Enclosure design Mechanism design <p>CAD/CAE</p> <ul style="list-style-type: none"> SolidWorks HSMWorks FEA <p>Machining Processes</p> <ul style="list-style-type: none"> Industrial Design Integration
DESIGN FOR OVERSEAS OR DOMESTIC PRODUCTION	<p>Design For Manufacturing</p> <ul style="list-style-type: none"> Silicone Molding Injection Molding Tooling Design Finishing Processes <p>Design For Assembly</p> <ul style="list-style-type: none"> Assembly Fixture Design
TESTING	<p>Root Cause Analysis</p> <p>Performance Testing</p> <ul style="list-style-type: none"> Cycle Testing Drop Testing Pressure Testing <p>Quality Assurance</p>
LOW VOLUME PRODUCTION	<p>CNC Precision Part Production</p> <p>Silicone Part Production</p>



INDUSTRIES



ON-SITE EQUIPMENT

- ◇ Haas UMC-750 5-Axis CNC Mill
- ◇ Haas VF2 SS 3-Axis CNC Mill
- ◇ Hardinge Lathe
- ◇ Manual Mill
- ◇ Laserstar Laser
- ◇ Form 2 SLA 3D Printer
- ◇ Markforged Onyx Pro
- ◇ Force testing equipment
- ◇ 6-Axis UR10 Industrial Robot
- ◇ Silicone Transfer Press
- ◇ UV Curing Station
- ◇ EFD Dispensing Equipment

CONTACT

240.994.6835

brett@swopedesignsolutions.com

www.swopedesignsolutions.com