

## ABOUT

Swope Design Solutions is a Mechanical Engineering and Product Design firm that specializes in consumer products, medical devices, and robotics. From napkin sketches to overseas production, we have a combined expertise in all areas of a product development cycle.

## PROCESS

Our process is simple: We create an ideal problem solving environment by giving our talented team of design engineers access to our fully equipped Engineering Lab. This recipe enables us to converge on solutions to our client's biggest, most complex problems at unprecedented speeds.

## WHY

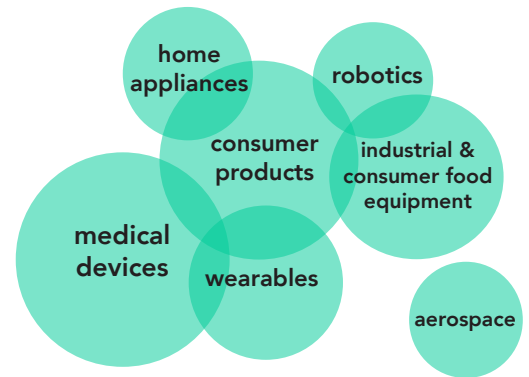
We believe in developing strong, high-quality relationships with our clients. We provide our wealth of knowledge through effective and consistent communication that leads to time savings, cost savings, and successful product shipments.

## EXPERTISE

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



## INDUSTRIES



## ON-SITE EQUIPMENT

- VF2 SS 5 Axis CNC Mill
- Hardinge Lathe
- Bridgeport Mill
- Laserstar Laser
- Silicone Transfer Press
- 3D Printing
  - SLA
  - FDM (2)
- Force testing equipment
- 6 Axis UR10 Industrial Robot
- UV Curing Station
- EFD Dispensing Equipment

## CONTACT

240.994.6835

brett@swopedesignsolutions.com

www.swopedesignsolutions.com