

# SWOPE

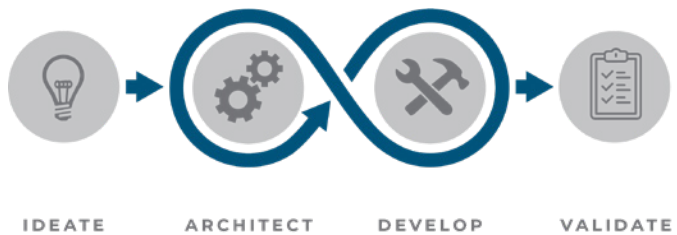
# DESIGN SOLUTIONS

## ABOUT

Swope Design Solutions is a Mechanical Engineering and Product Design firm based in SF specializing in consumer products, medical devices, and robotics. From napkin sketches to high-volume production, we have expertise in all areas of product development.

## PROCESS

Our unique process pairs engineers who have a wide breadth of design experience with in-house capabilities and equipment. This enables our engineers to efficiently converge on solutions to our client's biggest problems. Many firms are too large to rapidly arrive at 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

- Research & Development
  - IP generation
  - Advanced materials
  - Process development
  - Feasibility studies
- Rapid Prototyping
- Product Design
  - Proof of Concept development
  - Minimum Viable Product development
  - Injection molded part design
  - Electronics integration
  - Enclosure design
  - Mechanism design
- CAD/CAE
  - SolidWorks
  - HSMWorks
  - FEA
- Machining Processes
- Industrial Design Integration
- Silicone Prototyping

## DESIGN FOR OVERSEAS OR DOMESTIC PRODUCTION

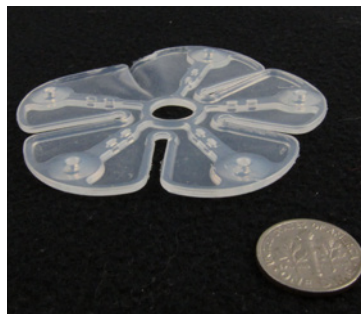
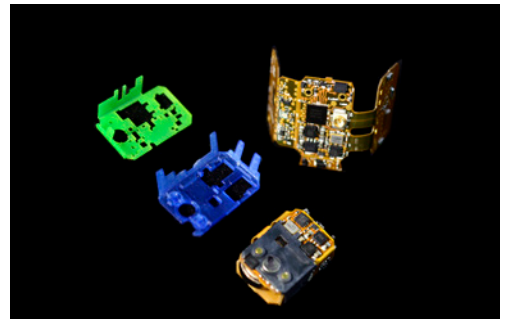
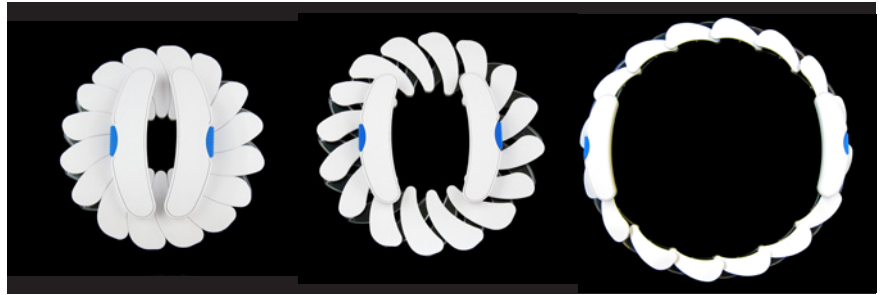
- Design For Manufacturing
  - Silicone Molding
  - Injection Molding
  - Tooling Design
  - Finishing Processes
- Design For Assembly
  - Assembly Fixture Design

## TESTING

- Root Cause Analysis
- Performance Testing
  - Cycle Testing
  - Drop Testing
  - Pressure Testing
- Quality Assurance

## LOW VOLUME PRODUCTION

- CNC Precision Part Production
- Silicone Part Production



# 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

