

Engineering Your Medical Device Innovations™



M E D I C A L



Engineering Services



Functional Prototyping



Product Development



Manufacturing Implementation



We help innovators rapidly develop and commercialize new medical devices through development services and collaborative partnerships.



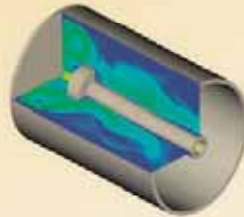
Our customers value our:

- Experienced engineering team
- FDA compliant quality system
- Established development process
- In-house development equipment
- Cost-effective staffing solution
- IP preservation & creation
- Beginning-to-end support



Offices in Tempe, Arizona

ENGINEERING SERVICES



Flow Model of Heated Catheter Device

FUNCTIONAL PROTOTYPING



Endoscope-Mounted Tissue Grasper

PRODUCT DEVELOPMENT



Automated Eye Scanning System

MANUFACTURING IMPLEMENTATION



Dilator Prototypes for Clinical Trials

Emerging medical device companies and inventors can take their devices to market faster by working with our engineering team. Our customers recognize that we are the best at using computer simulation and rapid prototype testing to quickly converge on design solutions. Our engineering services enable them to achieve their design goals, implement manufacturing, and take their concepts to market.

Product Development Projects

- Transoral Surgical Instrument** • Prototype design and development of NOTES device for GERD and obesity.
- Intraluminal Suture Knotter** • Prototype design and development of suture knotting instrument and implant.
- Laparoscopic Electrocautery Instrument** • Concept design of ergonomic and electrically safe handle.
- Ophthalmic Diagnostic System** • System design and documentation of automated eye scanner .
- Endoscopic Tissue Grasper Instrument** • Prototype development of endoscope -mounted tissue grasper.
- Heart Valve Stent** • Design consulting and simulation of blood flow through an implanted heart valve stent.
- Breast Biopsy Probe** • Design consulting and structural simulation of biopsy probe during harvesting procedure.
- Miniature Infusion Pump** • Concept design and feasibility testing of innovative annular valve concept.
- Blood Filter Device** • Design consulting and flow simulation of red blood cell filtering device.
- Implantable Pacemaker** • Structural simulation to investigate manufacturing process.
- Bone Paste Delivery System** • Concept design and demonstration of pneumatic powered instrument.
- Drug Delivery Device** • Design consulting and structural simulation of an elastic tip valve on delivery device.
- Pediatric Dental Drill** • Aerodynamic design consulting and concept design of miniature dental drill.
- Heart Valve Implant** • Design consulting and blood flow simulation for novel heart valve implant design.
- Safety Needle** • Design consulting and concept design on novel safety needle concept.
- Blood Flow Verification Device** • Feasibility study of ultrasound approach for blood flow verification.
- Transoral Suture Anchoring Device** • Prototype design and demonstration of pneumatic suture anchor instrument.
- Heated Catheter** • Flow and heat transfer simulation of a heated catheter device .
- Ultrasound Probe** • Rapid prototype fabrication of various probe design concepts .
- Bypass Catheter** • Design consulting and flow simulation of drug diffusion in novel catheter design.
- Endoscopic Cautery Device** • Concept design and demonstration of transoral inflatable cautery device.
- Esophageal Dilator** • Product design and clinical prototypes of novel dilator with feedback mechanism.

**View more projects at
www.padtmedical.com**



"For the last 3 years I have worked with PADT Medical as a physician-inventor of medical devices. We have worked intensely on a multitude of medical devices. Our project leader has been respectful, intelligent, inventive and on task. Their engineering team is professional, punctual and responsible. Their management is exemplary. I recommend PADT Medical to any potential client."

– Dr. Charles Filipi



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