

FATHOM[®]

ENGINEERING & DESIGN SERVICES

The Engineering & Design Team at FATHOM is a group of experts with industry-leading additive manufacturing experience. These highly trained engineers and designers can be contracted to support your in-house design team throughout the product development process from prototyping to production—use additive technologies in conjunction with traditional manufacturing methods to drive greater innovations.

By contracting with FATHOM, you can confidently develop products faster and in better ways that utilize the newest tools and cutting-edge technologies, materials, and processes. Be on the forefront of innovative methods by plugging in our design, engineering, and manufacturing resources throughout your product development process. **It is our technology-neutral approach, dynamic resources, passionate experts, and manufacturing agility that helps companies bring their parts from concept to reality.**

WE CAN BUILD WHAT YOU CAN FATHOM—ACCELERATE, ITERATE, & INNOVATE

The Engineering & Design Team has five areas of focus to best support you during product development.

Additive Manufacturing Expertise & Guidance

- Address cost, time, & geometry constraints by leveraging benefits of additive technologies
- Design optimization using generative tools specific to additive processes
- Direct Digital Manufacturing (DDM) applications & development
- Intricate knowledge of additive technologies, materials, processes, & software
- Direct access to in-house additive equipment (7+ technology types)
- Designing fixtures & jigs on a rapid schedule

Mechanical Concept Development

- Develop creative yet simple design solutions to meet your product's functional goals
- Device & enclosure development
- Component integration
- Large-scale fabrications
- 3D CAD experts in multiple software formats
- Rapid iterative design of all parts using in-house equipment
- Methods that increase speed & decrease total cost of development

Design For Manufacturing (DFM) Guidance

- In-house production capabilities, as well as a large network of specialists
- Depend on our knowledge & resources to inform key design decisions
- Carefully identify risks earlier in development & collaborate effectively
- Assembly fixture & jig design
- Design for injection molding

Industrial Design Support

- Holistic approach to industrial design
- Providing design-to-fabrication guidance at multiple stages of development
- Complex surfacing, form finding, rendering, & product architecture
- Additive art & large-scale installations

Advanced Prototyping Methodologies

- Impress investors or successfully ramp-up for production & everything in between
- Expedited prototyping that leverage FATHOM's on-site 3D printing services
- In-house CNC machining, turning, casting, molding, & laser cutting
- Rapid prototyping & iterative testing
- Functional, aesthetic, or fully integrated prototypes

FOR MORE INFORMATION

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