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## CONTACT US

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### Mount Airy, NC

#### SabeRex - North Carolina

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### China, Vietnam, Taiwan & India

#### ACT Partnership

Industrial District Lian Tang  
Wei Area, He Ao Village  
Keng Gang Town, Shen Zhen  
Guang Dong Province, China

#### Software Development Partnership

G.C. Technologies, India

## OUR TYREX FAMILY



Family of Technology Companies

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#### Signature Nonprofit



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Connecting  
& Educating  
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[recognizegood.org](http://recognizegood.org)



System Assembly  
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DLP® Solutions  
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[megladonmfg.com](http://megladonmfg.com)



Software & IT  
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[saberdata.com](http://saberdata.com)



Technology Solutions  
(512) 623-4694  
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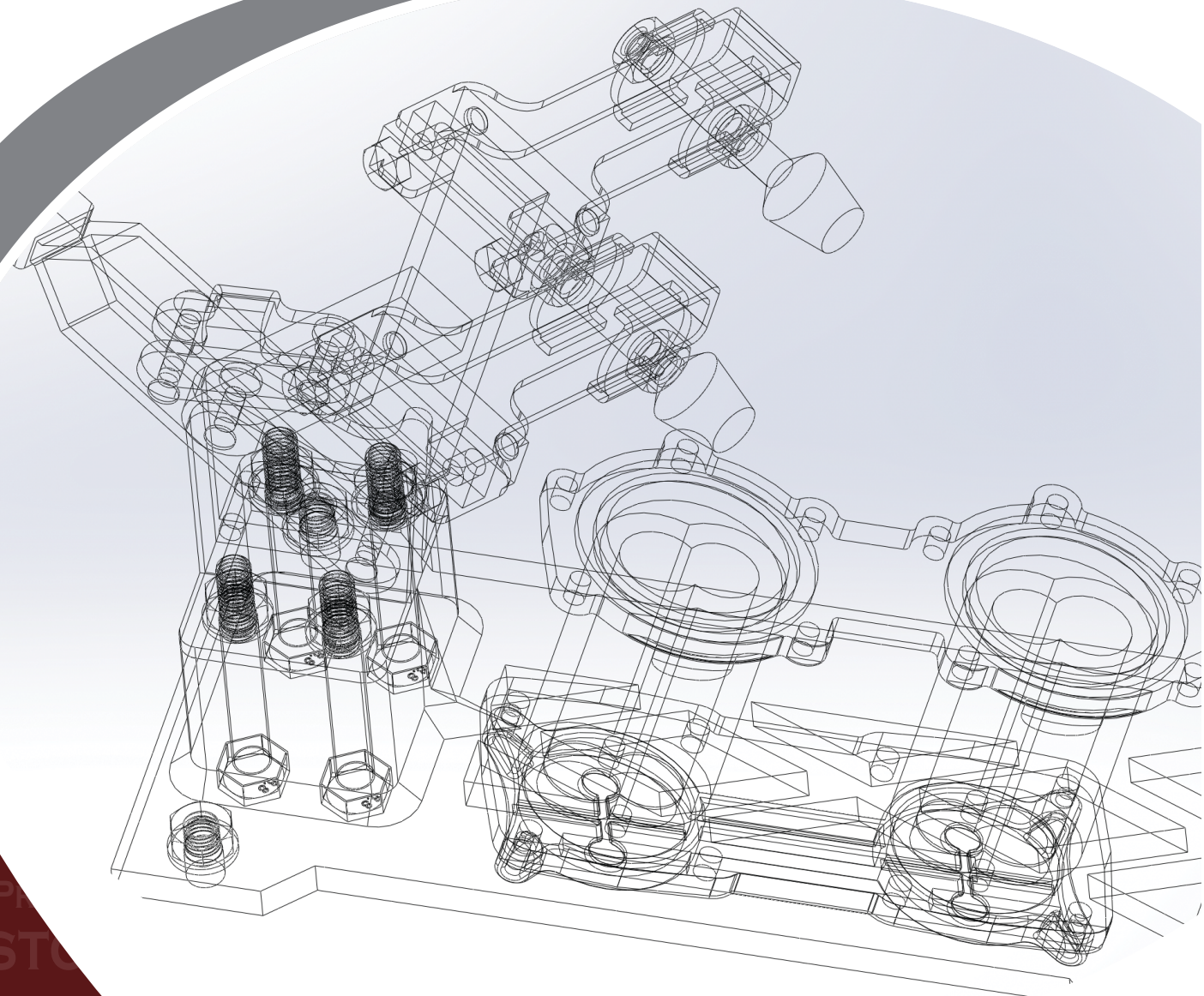


3D Printing Design &  
Product Development  
(512) 623-4694  
[tekrex.com](http://tekrex.com)



Additive Manufacturing  
(512) 623-4694

TyRex Family  
Associated Entities

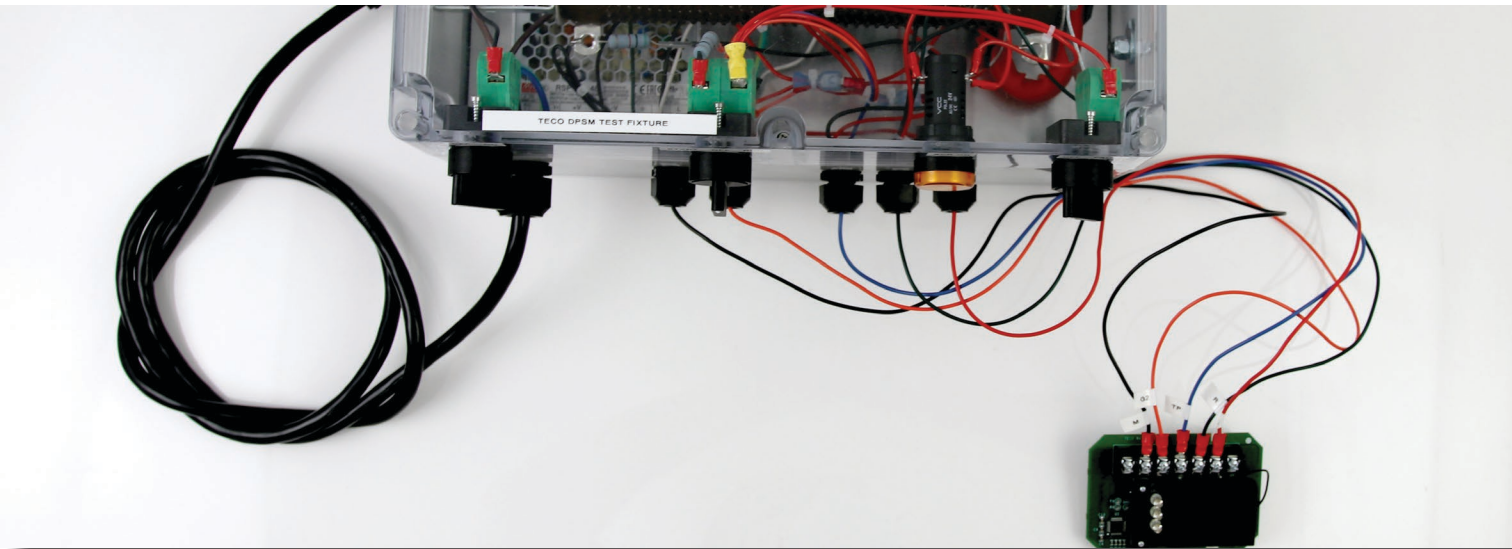


# TEKREX®

A TyRex Technology Family Company

## Your 3D Design & Development Partner





## ABOUT US

TekRex leads its manufacturing partners from research to production. As a team of experienced problem solvers, we drive development projects that allow the exploration of your new opportunities without diverting valuable resources from your operations. We are 3D printing experts with a wide range of printers on-site to support the demands and requirements of virtually any project.

We have hands-on experience with 3D printers based on Fused Filament Fabrication (FFF), Stereolithography (SLA), Digital Light Processing (DLP), Digital Light Synthesis (DLS | CDLP) and MultiJet technologies, as well as the design software and post-processing equipment required to operate each successfully at scale.



## SERVICES

All of our services include extensive knowledge in design, materials, manufacturing methods, production choices, 3D printer types, software, engineering, testing, safety and training. Context, like intended use, matters – we understand how to match printers with applications and guide you to the right choices with respect to speed, structural integrity, form fit tolerances and cost. Our engineering spans production applications, electrical systems design, testing and beyond. We have developed customized solutions for some of the most visible technology companies in the market, while serving as an internal support for the wide-ranging intelligent manufacturing processes of the TyRex Technology Family.



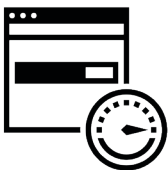
### PROTOTYPING & DEVELOPMENT

Get up and running in days, not weeks. Our partners understand the intricacies and variables that go into production 3D printing.



### DESIGN ENGINEERING

Engineering analysis and product design to reverse engineering and embedded design – our solutions work for your product.



### 3D PRODUCTION OPTIMIZATION

The right materials, the right design, the right equipment. We're more than just a 3D print center – we're your 3D printing experts.



### ENGINEERING STAFFING

When your project needs human capital to move forward, we're your resource.

## OUR PROCESS

At TekRex, the development process begins and ends with your idea.

### ★ PLAN

Examining risks, uncovering opportunities, developing blueprints for overcoming obstacles.

### ★ PERFECT

Creating effective designs that improve your product's performance while considering project parameters and limits.

### ★ PRODUCTION

Taking your design from plan to prototype to full-run production.

### DESIGN WORK

We meet you where you are and help boost your business forward, from evaluating the business case around your idea and assisting with design considerations to identifying jigs and fixtures or developing a comprehensive 3D printing strategy for your organization.



### QUALITY

Delivery of high-resolution, injection mold quality parts



### SPEED

3D printing process 25x to 100x faster than competitors



### EFFICIENCY

Print multiple items simultaneously on one build plate

## OUR SPECIALTIES

### APPLICATIONS

- product design
- test fixtures
- circuit board design
- cable harness design
- embedded products
- engineering analysis
- electro-mechanical
- reverse engineering

### INDUSTRIES

- test & measurement
- IoT
- robotics
- research & development
- energy
- consumer goods
- telecommunications
- automotive

## OUR WORK

Successful 3D printing requires extensive knowledge of materials, machines, and software. With an increasing number of different technologies being used and hundreds of machine choices, we've learned that there is no one machine that meets all of your needs with respect to design, cost, precision, materials, print time, and the human resources needed to operate. We currently have more than a dozen printers on site, each serving a unique purpose.



### Customized Potting Solution

**CHALLENGE:** Microwave technology company product has a fragile cable breakout. Due to volume and time constraints, a traditional overmold isn't a viable option.

**SOLUTION:** TekRex and sister company iRex designed, printed and assembled new products in a week, as compared to a lead time of 6 weeks in traditional manufacturing.

**IMPACT:** The cable assemblies and their overmold alternatives were created at a price and timeframe impossible through traditional manufacturing and with excellent build quality due to the custom shape.



### Complex Water Probe

**CHALLENGE:** Water quality test probes need complex parts that can withstand underwater use – customer needed high quality, affordable parts quickly.

**SOLUTION:** Complex shapes were designed with features that traditional machining processes could not get tooling to, and were printing in full production in a matter of days.

**IMPACT:** Products fit seamlessly into existing assemblies at a cost lower than a traditionally machined part, build quality increased over existing parts and the project even finished ahead of schedule.



### Fiber Launch Pack

**CHALLENGE:** Low quantity injection molded part mandated purchasing 2 years of supply and amortizing the molding cost into the cost of the finished goods.

**SOLUTION:** Redesign the part to optimize for 3D printing instead of injection molding, allowing for creative design changes and inventory control.

**IMPACT:** Reduced inventory to 2 weeks' supply and cost by 50%. Using 3D printing and the new design, customer was able to begin offering branded products at a lower cost and update design as needed.