

RedEye On Demand, KOR EcoLogic Collaborate for URBEE 2 Car



MINNEAPOLIS, MN, Mar 6, 2013 - RedEye On Demand, a rapid prototyping and direct digital manufacturing service, and its parent company Stratasys, Ltd. today announce a collaboration with KOR EcoLogic to produce URBEE 2, the first road-ready, fuel-efficient car built using 3D printing, or additive manufacturing, technologies. Targeted to hit the road in two years, URBEE 2 represents a significant milestone in the world of traditional assembly line manufacturing.



Jim Kor with the first 3D-printed automobile built by RedEye On Demand.

(Photo credit: KOR EcoLogic)

Jim Bartel, Stratasys vice president of RedEye On Demand said a future where 3D printers build cars may not be far off after all. Jim Kor and his team at KOR EcoLogic had a vision for a more fuel efficient car that would change how the world approaches manufacturing and today they are achieving it. URBEE 2 shows the manufacturing world that anything really is possible. Though there are few design challenges additive manufacturing capabilities can't yet solve.

The KOR EcoLogic team will fully design URBEE 2 in CAD files, sending them to RedEye On Demand for building through Stratasys' fused deposition modeling (FDM) process. This unique process applies thermoplastics in layers from the bottom up, yielding parts that are durable, precise and repeatable. The finished two-passenger vehicle will comprise 40 large, intricate 3D-printed parts compared to hundreds of parts in the average car. The strong, lightweight vehicle will be designed to go 70 mph on the freeway, using a biofuel like 100 percent ethanol. The goal is for URBEE 2 to drive from San Francisco to New York City on only 10 gallons of fuel, setting a new world record.

Jim Kor, president and senior designer for Winnipeg-based KOR EcoLogic said that as a mechanical engineer, he had always believed that they could use technology to help solve some of society's greatest challenges, like minimizing dependence on oil and reducing ozone emissions. Their team is excited to launch URBEE 2, putting a

next-generation vehicle on the road that will eventually be sold to the public.

URBEE 2, which stands for urban electric, follows in the tracks of its conceptual predecessor, Urbee 1. Produced in 2011 as a partnership between KOR EcoLogic, Stratasys and RedEye On Demand, Urbee 1 proved that 3D printing could in fact produce large, strong parts that meet accurate specifications of a car body. URBEE 2 will take the basic concepts of Urbee 1 to a higher level, including features like a fully functioning heater, windshield wipers and mirrors.

With the Urbee 1 project, he learned that product design is nearly unencumbered by considerations on how parts can be made with digital manufacturing. That liberation is incredibly powerful and holds a lot of potential for the future of manufacturing, said Kor.

For more about RedEye On Demand's services and applications:

- [See how FDM works](#) (Watch a Part Print with FDM Technology)
- Case study: RedEye On Demand defines museum-quality 3D printing in creating a [historical replica for the Smithsonian](#)
- Case Study: ICON Aircraft Uses RedEye On Demand's Rapid Prototyping Services to create plane's Air ducting parts
- [Video tour](#) of the RedEye On Demand facility and systems at work

About RedEye On Demand

RedEye On Demand, by Stratasys, makes prototyping and the production of low-volume, complex parts fast and easy. RedEye assists engineers in all phases of product development from conceptual modeling to the production of end-use parts. As the leader in on-demand, 3D printing services and powered by the innovation of Stratasys, product developers rely on RedEye for the breadth and reach of its manufacturing technologies. These technologies include Fused Deposition Modeling (FDM), PolyJet, cast urethane molding and injection molding. RedEye's global distributive manufacturing network includes more than 140 additive manufacturing systems worldwide. Through its vast network, RedEye is able to streamline and expedite the development time for parts, reducing costs and time to market.

For more information, visit RedEyeOnDemand.com

About Stratasys Inc

Stratasys Inc., Minneapolis, is a maker of additive manufacturing machines for prototyping and producing plastic parts. The company markets under the brands Mojo, uPrint and Dimension 3D Printers and Fortus Production 3D Printers. The company also operates RedEye On Demand, a digital-manufacturing service for prototypes and production parts. In 2011 Stratasy acquired 3D printer maker Solidscape Inc. According to Wohlers Report 2012, Stratasy had a 41.5 percent market share in 2011, and has been the unit market leader for the tenth consecutive year. Stratasy patented and owns the Fused Deposition Modeling (FDM) process. The process creates functional prototypes and manufactured goods directly from any 3D CAD program, using high-performance industrial thermoplastics. The company holds 380 granted or pending additive manufacturing patents globally. Stratasy products are used in the aerospace, defense, automotive, medical, business and industrial equipment, education, architecture, and consumer-product industries.

For further information, www.stratasys.com.

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