

## Mechanical Engineering Seminar



**Jake Riley**

### **Propulsion & Pneumatics Engineer Scaled Composites**

#### **A Career at Scaled Composites: Pioneering the Next Generation of Aerospace and Space Flight**

*Wednesday, June 28, 2017 at 1:30PM, Room 173 Light Engineering Building*

#### **Abstract**

Scaled Composites is a rapid-prototyping aerospace company located in Mojave, California. Founded in 1982 by famed aircraft designer Burt Rutan, Scaled has averaged a first flight of a new aircraft design every year since its inception. Well-known past projects include *Voyager*, the first aircraft to fly non-stop, un-refueled around the world and *SpaceShipOne*, the first private manned spacecraft, winning the Ansari X-prize in 2004. Currently, Scaled's highest-profile project is *StratoLaunch*, a 385 foot wingspan, 1.3 Million Pound aircraft that will carry a 500,000+ pound rocket to altitude where it will be air-launched to orbit.

Scaled is actively recruiting engineers, and this presentation will provide an overview of the exciting work Scaled does, the environment in which it is done, and will provide information about internships and job openings currently being offered.

#### **Biography**

Jake Riley completed his degree in Mechanical Engineering from Stony Brook University in 2013. He is currently the lead propulsion and pneumatics engineer, as well as one of the three members of the flight crew on Scaled Composites' Stratolaunch, the world's largest aircraft. He began his career in 2012, working at a local Long Island company designing electromechanical actuators. In early 2014 he transitioned into the aerospace industry, as a design engineer at Scaled Composites in Mojave California. Jake started his tenure at Scaled as a structural designer on the StratoLaunch's center wing, before moving on to aircraft subsystem design, and eventually joining the flight operations department as a flight crew member in late 2016. He holds a commercial multi-engine pilot certificate with instrument rating as well as an AVL-29 turbojet type rating, used to fly the Russian fighter jet he has restored in his spare time.

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