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Company Snapshot

Developing revolutionary counter-rotational engines for unmanned drone applications by leveraging our patented, cam-driven helicopter engine technology toward eventual applications for the military, domestic security, and civilian markets in the form of the NorEaster power system

Team

- James O'Neill, President
- Robert Norton, Chief Engineer
- David Minard, CFO
- Gerard Kelly, Marketing

Competitive Advantages

- Simultaneous counter-rotating output which eliminates the need for a tail rotor and its associated shaft, gearing, and airframe structure, constituting a significant weight savings as well as a reduction in complexity and overall vehicle size
- Multiple lobes on the cam provides an inherent gear reduction ratio so it does not need an external gearbox
- Can lift hundreds of pounds for hundreds of miles at a hundred miles per hour
- When compared to the competition, the NorEaster is less costly to manufacture, operate, and maintain

Company Overview

O'Neill Power Systems is researching counter-rotational engines to create a power system that has an integrated engine and transmission that is capable of lifting a cargo-carrying, VTOL, unmanned aircraft with up to a 1000-lb payload capacity.

Problem

- Current VTOL UAVs do not have a high payload capacity
- Conventional helicopters that can handle a high payload need to be manned and require large heavy transmissions that are complicated and expensive

Solution

- A heavy lift VTOL UAV that is simple and cheaper, the NorEaster

Market Size

Global commercial UAV market will be USD 129.23 billion by 2025 according to Grand View Research

Significant Accomplishments

- Several prototype engines have been built and successfully run
- U.S Patent # 7,219,631 B1
- Patent protection till 2037 when pending patent put into place
- Cover of Popular Science June 2012 with an Invention Award
- Encouraged by DARPA with a letter of interest

Business Strategy

Target key players in the drone engine manufacturing market in order to form a partnership or sell the patent