

# Raptor Motors

High performance motors for drones



# Team



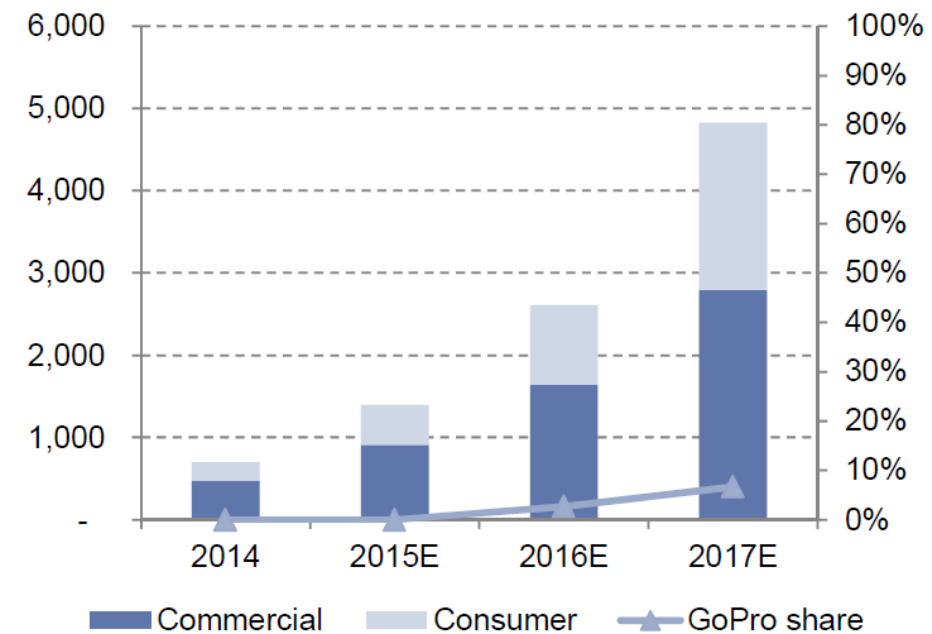
**Matthew Piccoli – CEO/CTO**  
**Mechanical Engineering PhD 2016**  
**Pilot/autonomous aircraft designer**



**Jonathan Mueller – CMO/CFO**  
**Former USAF pilot, Electrical Engineer**  
**Wharton MBA 2016**

# Drones need better motors

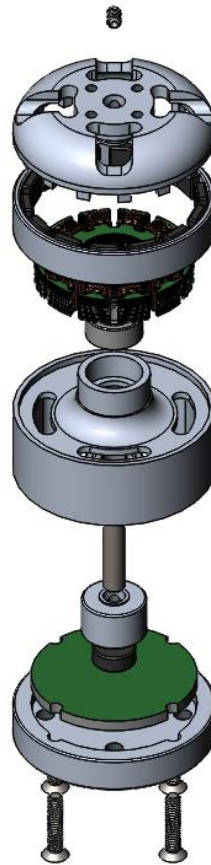
- 6 million drone motors were sold in 2015 for \$180 million.
- By 2017 that number will increase to 20 million electric drone motors and \$600 million in sales
- Existing motors for drones are poorly designed.
- They are:
  - Slow
  - Noisy
  - Inefficient
  - Unmaneuverable



Source: Goldman Sachs Global Investment Research.

# The Raptor Motor

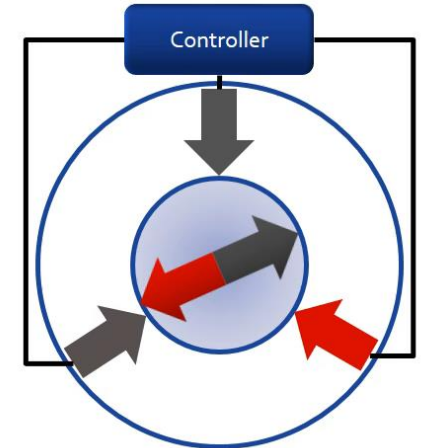
- 10-50% more power efficient
- 10% more peak power
- Faster acceleration (increased maneuverability)
- Ability to instantaneously reverse direction



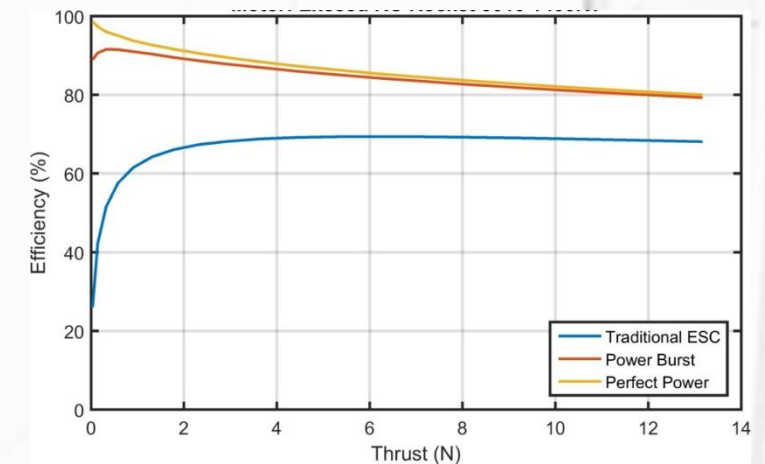
3D CAD model



1st prototype



Perfect power application:



More efficient

# Timeline and Costs

- Complete CAD model and PCB design – 28 Feb 2016  
\$0
- Source and fabricate 10 motors and PCBs – 31 March 2016 \$800
- Motor PR videos, website – 15 April 2016 \$5000
- Kickstarter campaign for publicity – 1 May 2016
  - Start taking customer orders
- Demo at AUVSI trade show – 3-5 May 2016 \$3000
  - Build relationships, take more customer orders
- Finalize production partners, begin manufacturing – July 2016 \$10000