

# INVENTION HOUSE

IDEAS CONTROL POWER



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## PROFILE

Invention House is a fast response team that designs new power management systems to replace motor controls and VFDs used in cooling fans, weapons turrets, radar systems, HVAC application, pumps, etc. In business for over 15 years, our mission is to keep critical DoD systems operational!

## PRODUCTS & SERVICES

- Electronic design
- Power circuit design
- Electronic assembly
- PCB layout
- Embedded Software
- Human Interface
- Failure Analysis

## CUSTOMERS

- US Navy** SPRMM1-13-P-WA05
- DLA** SPE7MC-13-M-1410  
SPE7Mo-13-M-2057
- HDT Global** Single Phase Drives  
3Hp Drives

## CERTIFICATIONS

- Small Business
- Duns 828761838  
cage 58XJ1

## NAICS CODES

- 59 Electrical and Electronic Equipment Components
- 334418 Printed Circuit Assembly
- 334419 Other Electronic component mfg.
- 335 Electrical Equip Mfg.
- 335999 All other electrical equipment mfg.

## CASE STUDY: BAD WEATHER LANDING SUPPORT.



In 2011, the SPAWAR division of the US Navy was unable to procure a 400Hz power converter because it was discontinued by the original manufacturer. The converter drives cooling fans in the precision approach radar system used at Naval air stations such as Camp Pendleton and NAS Pensacola. In 1 month, Invention House designed and delivered a converter that met the form, fit, and function requirements. In addition, the new converter is current limited and will not burn out like the old unit. Invention House did not charge the government for development engineering. Since development, Invention House has delivered 60 units at a cost to the government of \$1,350 ea. The original unit cost \$5,000 ea. This represents a \$200,000 savings in the first year alone.

