

Munro's 30+ years of experience consulting across every major industry means we can offer design and manufacturing solutions that stretch the boundaries of what is considered possible.

# ESTABLISHED IN 1989, MUNRO HAS BEEN AT THE FOREFRONT OF LEAN PRODUCT DESIGN, ENGINEERING, AND MANUFACTURING CONSULTING FOR OVER THIRTY YEARS.

Munro has improved dozens of iconic defense technologies, from the Javelin and Excalibur to the Iron Dome and F-35. The Munro methodology is trademarked and proven to lower cost and increase quality across tens of thousands of commercial and defense products. Munro's clientele includes the world's most renowned Defense and commercial customers.

# PAST PERFORMANCE



# LEGACY OF SUCCESS

NUCLEAR

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**WEAPON SYSTEMS** 

# SERVICE OFFERINGS

### **PRODUCT DEVELOPMENT**

Refining products and processes to achieve an efficient design that maximizes Value, Quality, and Profit.

# MANUFACTURING

Enhancing the manufacturing process to reduce costs through increased efficiencies.

### BENCHMARKING INTELLIGENCE

**NAVAL** 

Giving customers an edge through understanding of a product's design in the context of its competitive landscape.

### **COSTING SERVICES**

Understanding the complete picture through detailed analysis of every part, process, and tool.

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# **GLOBALLY RECOGNIZED**

Sandy Munro's Lean Design<sup>\*</sup> principles have captured the attention of engineers and entrepreneurs worldwide through YouTube on their Munro Live Channel. These principles focus on the following key aspects:

90% of Total Life Cost (TLC) in defense and aerospace products is determined by design.

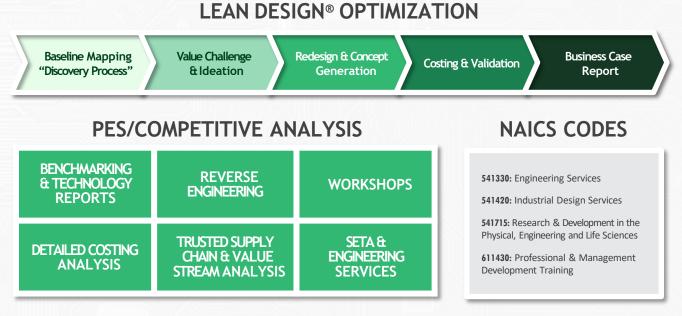
Reducing complexity and enhancing producibility starts with design.

Efficiency and precision comes from a Right First Time (RFT) approach.





It's nearly impossible to achieve truly efficient manufacturing without paying attention to Lean Design. The success of the Munro methodology reinforces the fact that manufacturing systems development must be intertwined with the design process to achieve optimal efficiency.



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