



### **Nathan G Christensen**

Senior Manager, Engineering and Scientific Methods  
Northrop Grumman Propulsion Systems, Space Systems Sector  
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#### **Biography**

Nathan Christensen holds a BS in Engineering from Brigham Young University with MSME post graduate studies in Mechanical Engineering at Utah State University and the University of Utah. He joined Propulsion Systems as a design engineer and structural analyst in composite structures designing and analyzing missiles, rockets and aerospace components. He has over 30 years of experience in engineering, rocket motor design and manufacture, with over 25 years in engineering management.

Nathan has spent a significant portion of his 30+ year career working with PLM/CAD/CAE and computational tools for design and analysis. He is one of the technical founders of Northrop Space Systems sector CAD/CAE and PLM systems, which manage hundreds of thousands of pieces of product, simulation and engineering information used at 30 Northrop facilities across the US. He had published numerous technical articles and papers on rocket motor design and analysis, PLM/CAE tools, visualization and computational methods. He also holds a patent for hybrid pressure vessels.

In his current position, as manager of Engineering and Scientific Methods group, his responsibilities include PLM/CAD/CAE and simulation tools, rocket motor performance databases, analytical methods and software development, reliability engineering, statistical methods, internet of things (IOT) technologies, additive manufacturing, high performance computing (HPC) and operations of shared HPC resources used across Northrop Grumman. He also manages immersive visualization and virtual/augmented reality efforts for the Northrop Grumman Propulsion Systems business unit.