

## **Accelerating the metal additive revolution**

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### **Abstract:**

In this presentation, I plan to walk the audience through the journey of metal Additive as both an enabler and a disruptor simultaneously. We at the GE Aviation in the early years of 2010/2011 were facing a challenge to create the most reliable and most efficient engine for the commercial narrow body planes, namely the A320neo and 737max as well as the C919. Through this challenge we found a solution that actually pointed us to a new technology and industry now known as Additive Manufacturing. I will narrate the successes and failures of this journey plus how it lead us to create a new vertical inside GE by acquiring the Concept Laser, Arcam and GeonX companies in addition to the original Morris technology. I will also highlight the challenges one faces between prototyping and going to a full production as well as what it takes to create an ecosystem that supports the journey and the successful launch of printing engine and components for cost, performance, time to market and vertical integration.

I then plan to close the talk by addressing what we have done to enable the academia and the school systems to have access and expose students to the 3-D printing.