

# World Congress on Industrial Automation

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## The transformative power of the industrial internet

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Many older well established industries have been slow to embrace the big wave of digital innovation. That is all quickly changing as competitive pressures and customers demand more from industries than prior models alone can deliver. One industry that is quickly transforming is Aviation. How is it benefitting from the industrial internet? What is being done today and what are the plans for the future? In this session we will take a close look at GE Aviation, a world-leading provider of jet and turboprop engines, components and integrated systems for commercial, military, business and general aviation aircraft.

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## How automation/robotics does indeed create jobs?

**Bob Doyle**  
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There has been much in the news recently about how technological advances in robotics and automation are “killing” jobs. This is important to manufacturing because it gives the industry a black eye. Unfortunately the media portray advances in our industry as job killers, rather than focusing on the real story of creating higher paying, higher technology jobs. Manufacturing today is not the manufacturing of old with dull, dirty or dangerous jobs. In fact, companies today have a hard time filling these advanced manufacturing jobs that require a higher skill set. This topic is important to the audience because we need everyone in the industry to help spread the message that the manufacturing industry is a high tech and innovative career choice to make. And that automation is not a job killer, but a job creator. The real threat to jobs in manufacturing is the inability to compete globally. Automation helps manufacturers be more productive, producing higher quality products faster, safer and cheaper. This keeps manufacturing in America rather than being outsourced to other countries. In fact, it causes companies to rethink their decision to offshore, potentially bringing manufacturing and jobs back to the United States. Research studies have proven that the introduction of robotics and automation creates jobs. This data will be discussed and analyzed. There are also many case studies of businesses that have created jobs because of automation. These companies are now successful, with new business and markets open to them that would not have been possible before automation. These case studies will be highlighted, proving that it is almost imperative to automate in order to remain competitive. This presentation will discuss and analyze research studies showing how automation/robotics does indeed create jobs. It will also discuss case studies (including videos) of small and medium sized business that is now thriving because of automation.

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