The Fourth Industrial Revolution

1. Mechanization, water power, steam power
2. Mass production, assembly line, electricity
3. Computer and automation
4. Cyber physical systems

Background

First Industrial Revolution: Steam Engines & Mechanized Production
Second Industrial Revolution: Mass Production, Electricity, and Fossil Fuels
Third Industrial Revolution: The Age of Digital
Fourth Industrial Revolution: Computerization & Connections within Manufacturing

The Internet of Things

34% believe it is extremely critical that U.S. manufacturers adopt an IoT strategy in their operations

38% currently embed sensors in products that enable end-users/customers to collect sensor-generated data

Companies Adopting IoT

Dell EMC
Dell EMC now produces a wide variety of computer and networked storage data platforms
In 2015, Dell Inc. acquired EMC, and EMC had acquired Data Domain, who is at the forefront of IoT

BIG ASS FANS
Haiku fans use SenseMe smart technology Programmed to work with a NEST thermostat Won CES Best of Innovation Award and 2015 ENERGY STAR Most Efficient

Reshoring Institute
https://reshoringinstitute.org/

What’s Next?
To rebuild a manufacturing base in America, it is essential to move towards advanced manufacturing in robots, automation, IoT and other computerization on the shop floor