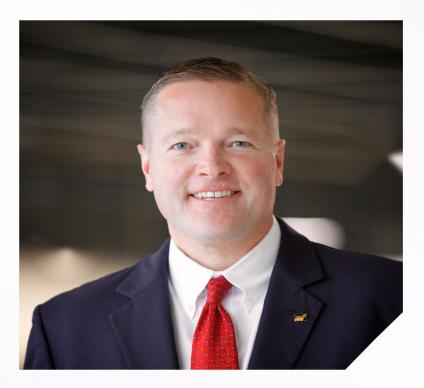
FANUC

FANUC

Mike Cicco

President & CEO

FANUC America Corporation





WHO IS FANUC -AMERICA

WE ARE A TEAM OF PROBLEM SOLVERS

OUR MISSION TRANSFORMING the WORLD

HOW?

BY SOLVING MANUFACTURING CHALLENGES



FANUC has transformed manufacturing in a number of industries

FANUC products make the things we use in our daily lives



OUR PRODUCTS

FANUC ковознот (X-S150**1**В

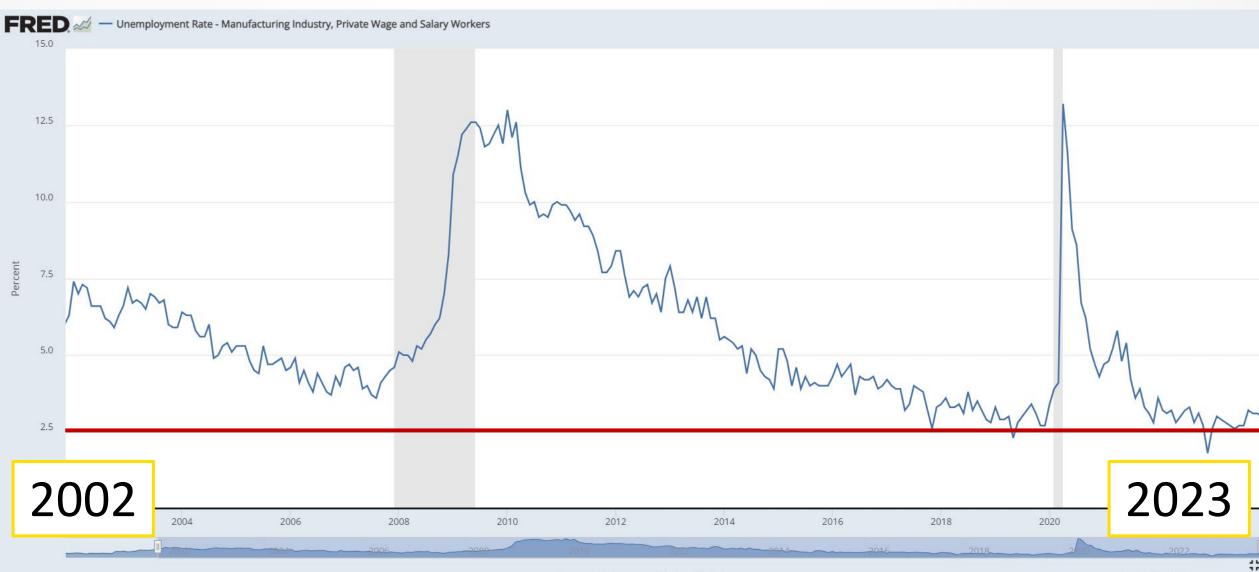
S GIGIGIÓ

FANUC provides industry-leading robotics, CNCs, and ROBOMACHINE solutions.

WHAT WHE JTURE?

Transformative Power Of: AUTOMATION, AI, EDUCATION

Unemployment Rate - Manufacturing



Shaded areas indicate U.S. recessions.

Source: U.S. Bureau of Labor Statistics

fred.stlouisfed.org

FANUC



Unemployment Rate – since 1960!



Shaded areas indicate U.S. recessions.

Source: U.S. Bureau of Labor Statistics

fred.stlouisfed.org



Job Openings - Manufacturing



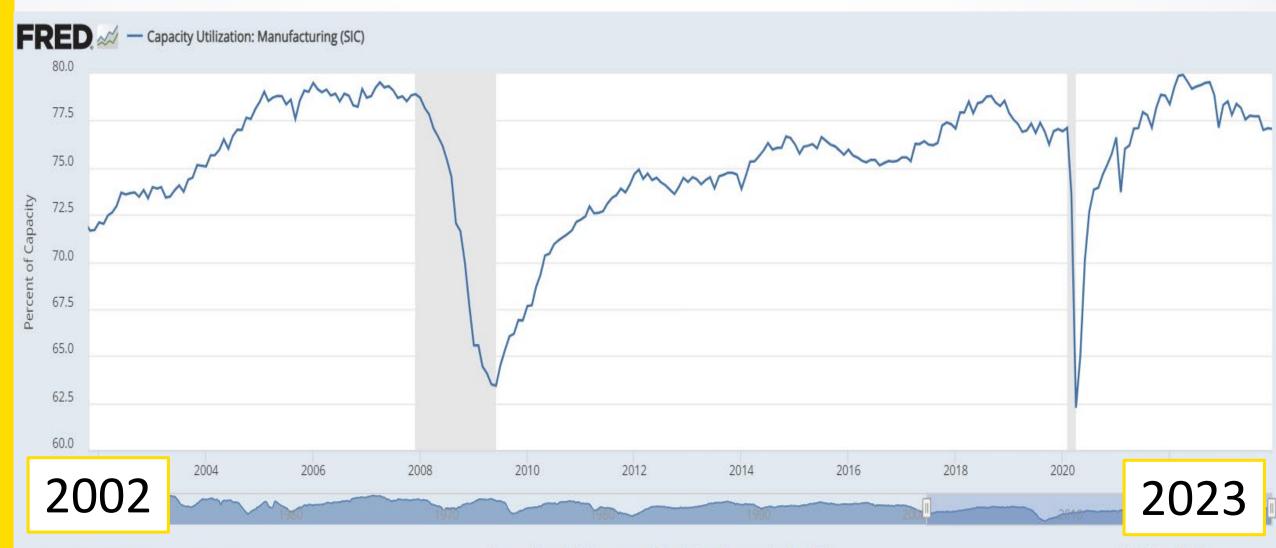
Shaded areas indicate U.S. recessions.

Source: U.S. Bureau of Labor Statistics

fred.stlouisfed.org



Capacity Utilization - Manufacturing



Shaded areas indicate U.S. recessions.

Source: Board of Governors of the Federal Reserve System (US)

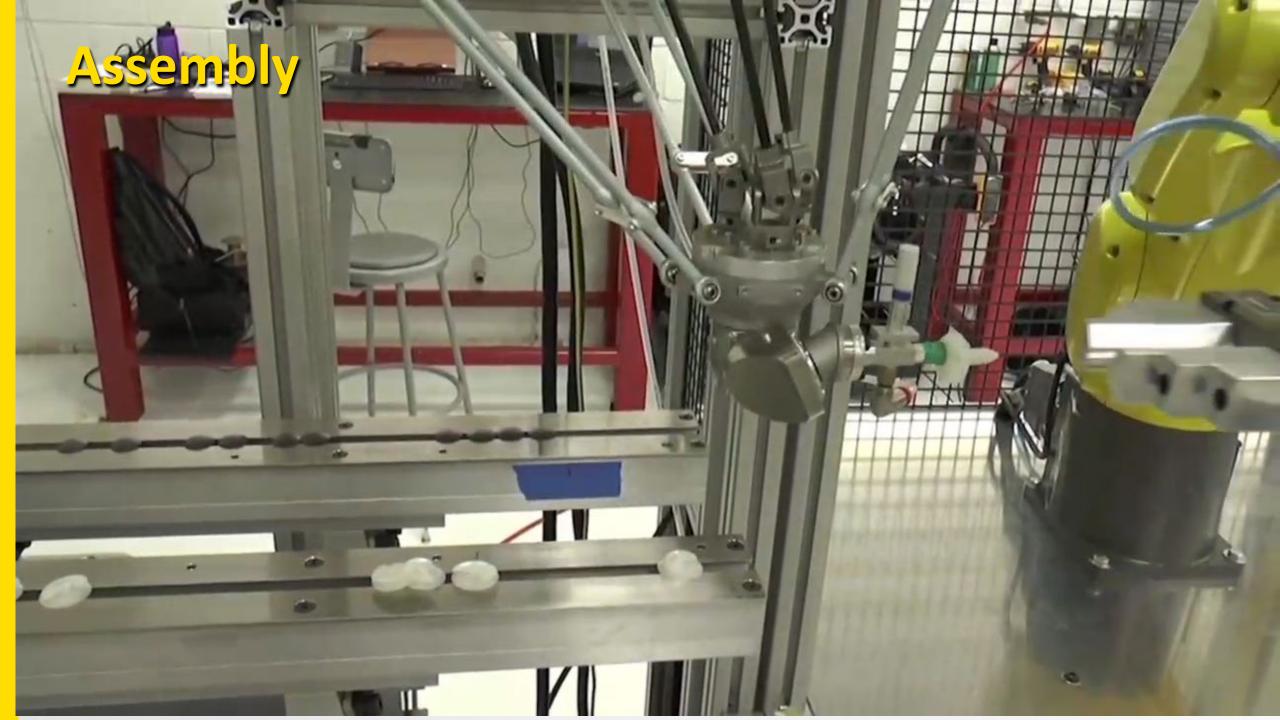
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AUTOMATION

Machine Tending

.

10 TON SERIAL #15031



Flash Removal

T

Lights-Out Machine Tending

MF

MF-PR01-03

MF-PRO1-02

MF-PRO1-04

2:03:03 AM

Plastic Recycling

PANUC REA

6

TIPP

A 1 32 3 44 1 47 48 71

minin

Ultrasonic Welding



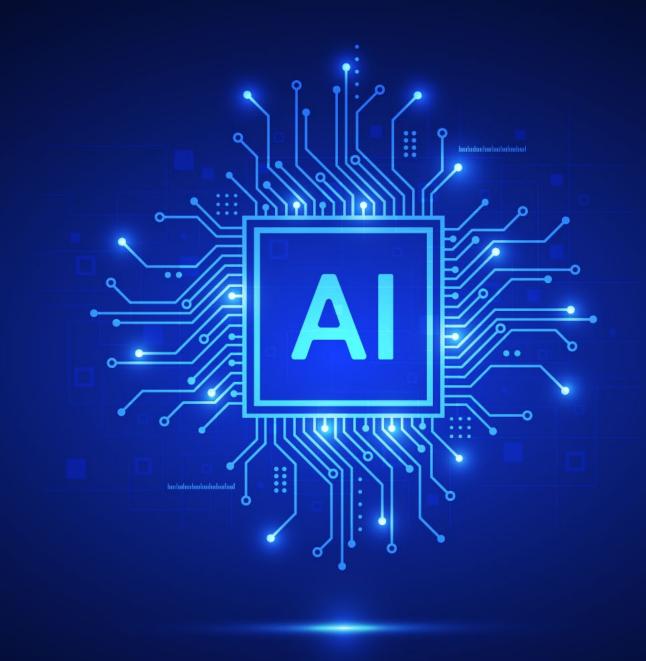


THE R.

Vinyl Surface Flame Treatment

m.

GAI TEX DEW CAB VIN







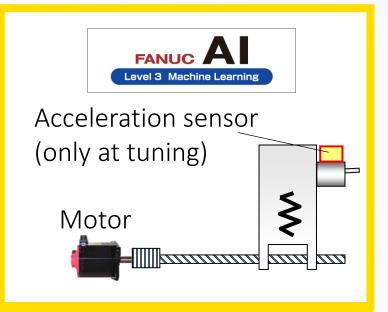
Examples of AI used in Industrial Systems Today



Computer Vision



Machine Learning for Quality Control



Machine Tuning

Al Vision for Quality Control



600

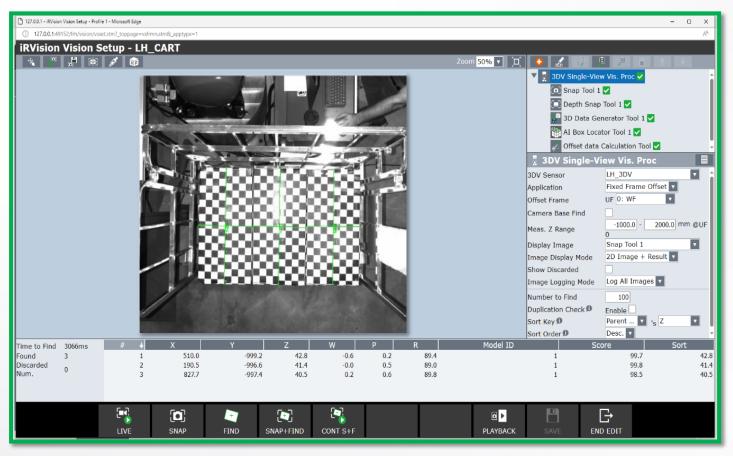
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FANUC *i*PC Machine Learning

Vision Challenges

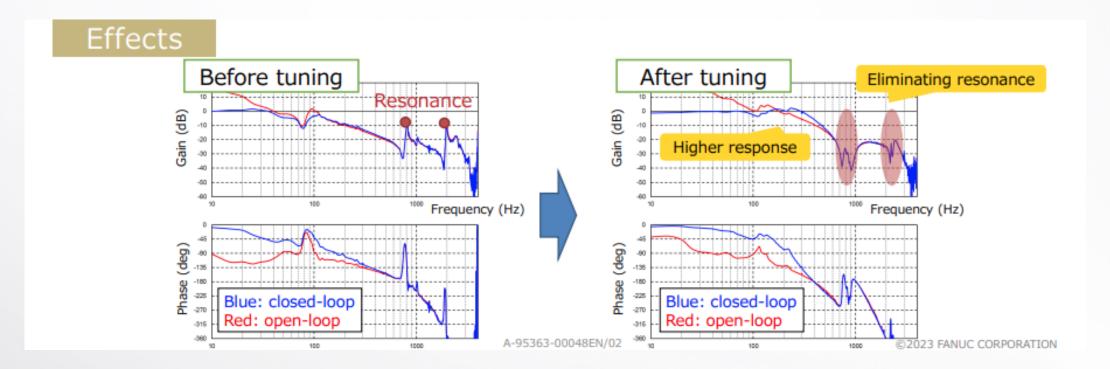
- High Contrast
- Tightly Packed Boxes
- Difficult pattern to segment box edges properly.

3 Boxes Found

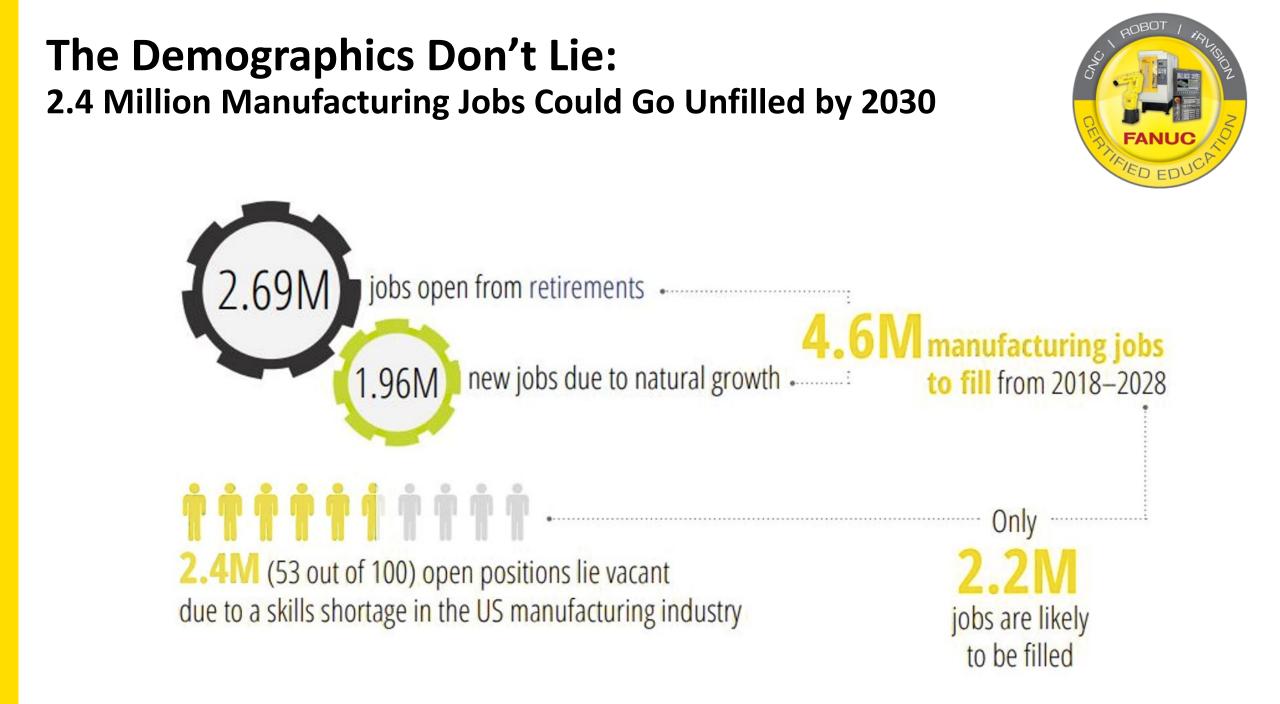




Al Servo Tuning



EDUCATION





Aligning Industry and Education

1,600 EDUCATION PROVIDERS

1500+ Certified Instructors **70,000+** Students Introduced Annually **1,000,000+** Unique Experiences

- A successful workforce strategy starts with acknowledging that you won't solve your current hiring challenges by applying the solutions of the past.
- Alignment to talent needs is a primary factor along with defining career pathways and upward mobility and flexibility.





Thank you!