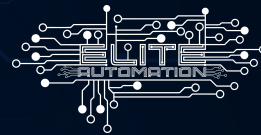


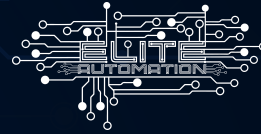
# Robotic Simulation Overview



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## BIW ROBOTIC CAPABILITIES

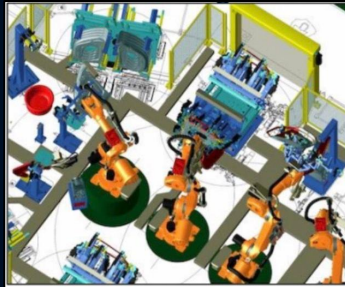
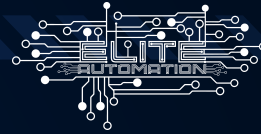
- ❑ Robotic Simulation
- ❑ Robotic Offline Programming
- ❑ Virtual Commissioning



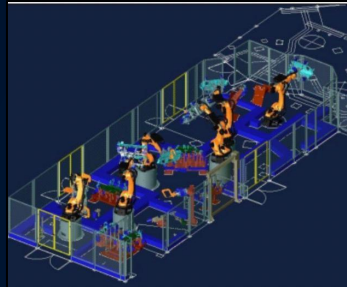
## ROBOTIC SIMULATION CAPABILITIES

- ❑ Robotic Material Handling
- ❑ Robotic Spot Welding
- ❑ Robotic Arc Welding
- ❑ Robotic Riveting
- ❑ Robotic Hemming
- ❑ Robotic Marking
- ❑ Robotic Laser Welding
- ❑ Robotic Clinching
- ❑ Robotic Sealing/Gluing
- ❑ Robotic Handshake
- ❑ Robotic Bolting
- ❑ Robotic Flow Drill Screwing
- ❑ Robotic Projection Welding
- ❑ Robotic Stud Welding

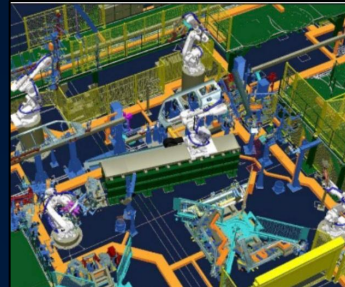
# ROBOTIC SIMULATION CAPABILITIES



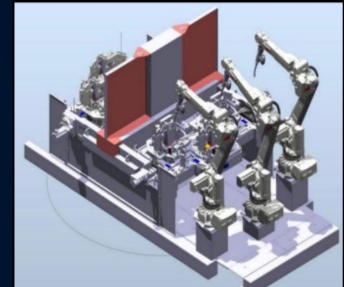
## Handling



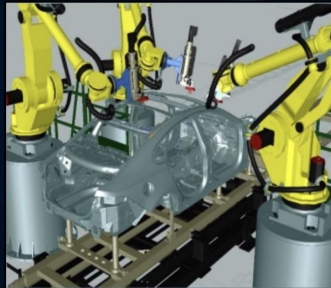
## Spot Welding



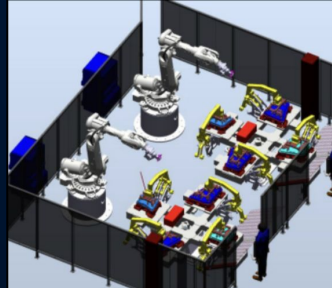
## Riveting



## Arc Welding



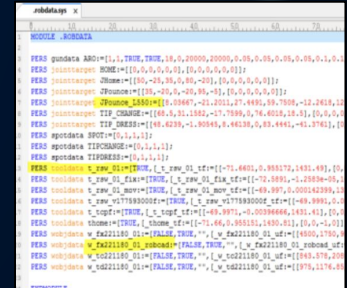
## Sealing/Gluing



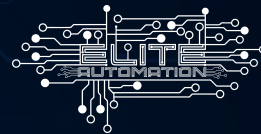
## Hemming



## Projection Welding



## Robot OLP



# FRONT CROSS MEMBER MIG WELDING LINE

**OEM: VOLVO**

**Product: FRONT CROSS MEMBER**

**SOW: ROBOTIC SIMULATION**

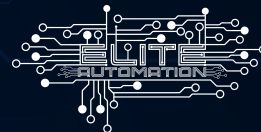
**Software: ROBCAD**

**Hours: 1200 HRS**

**Timeline: 14 WEEKS**

**Team size: 3**





# BRAKE PEDAL ALUMINUM WELDING LINE

**OEM: AUDI**

**Product: BRAKE PEDAL**

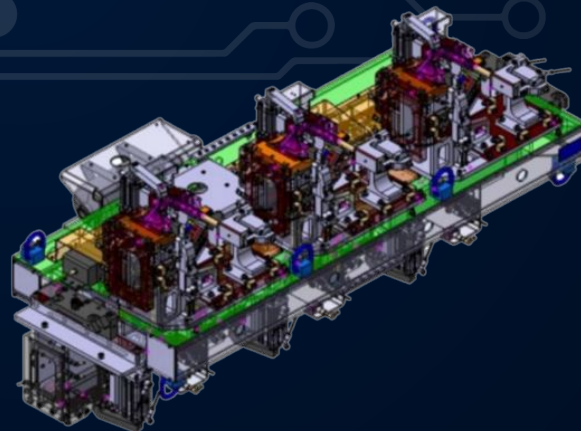
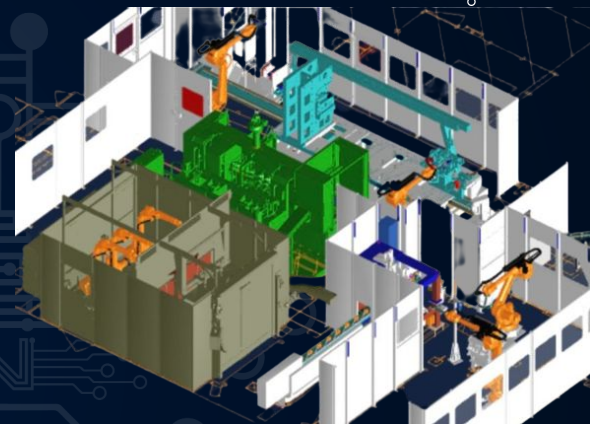
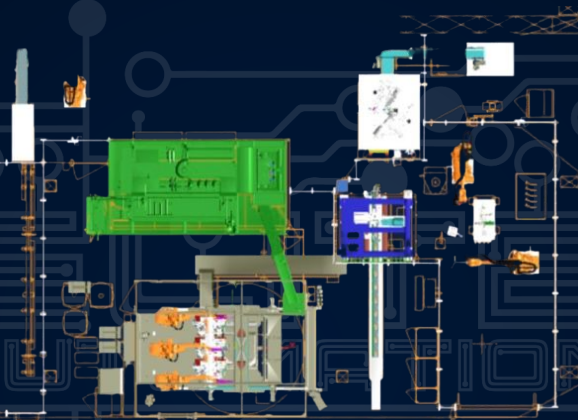
**SOW: ROBOTIC SIMULATION**

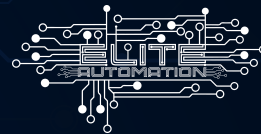
**Software: ROBCAD**

**Hours: 700 HRS**

**Timeline: 8 WEEKS**

**Team size: 2**





# REAR DOOR SPOT WELDING LINE

**OEM: FORD**

**Product: REAR DOOR**

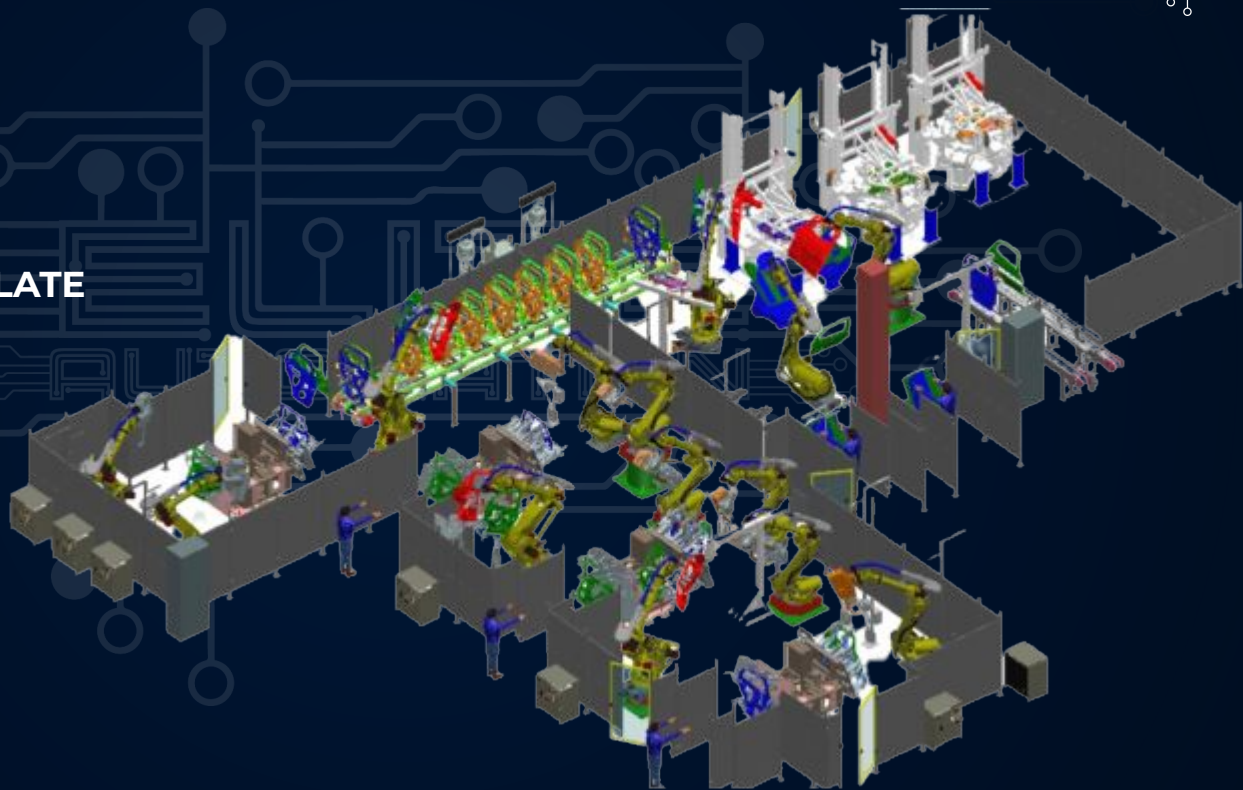
**SOW: SIMULATION**

**Software: PROCESS SIMULATE**

**Hours: 1200 HRS**

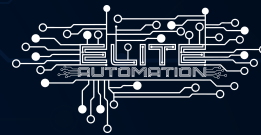
**Timeline: 9 WEEKS**

**Team size: 4**









## REAR DOOR ROLLER HEMMING LINE

**OEM: PIAGGIO**

**Product: DOORS**

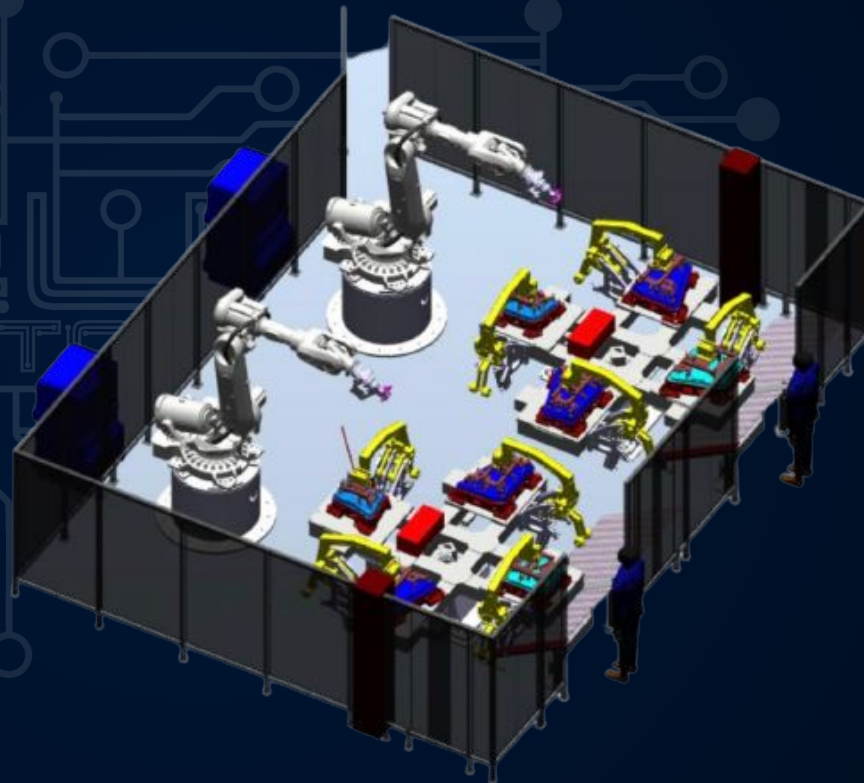
**SOW: SIMULATION, OLP**

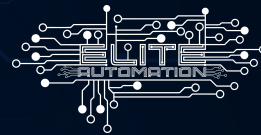
**Software: ROBCAD/ROBOTSTUDIO**

**Hours: 450 HRS**

**Timeline: 6 WEEKS**

**Team size: 2**





# FLOOR MAT THERMOFORMING AND LASER JOINING LINE

**OEM: BMW**

**Product: FLOOR MAT**

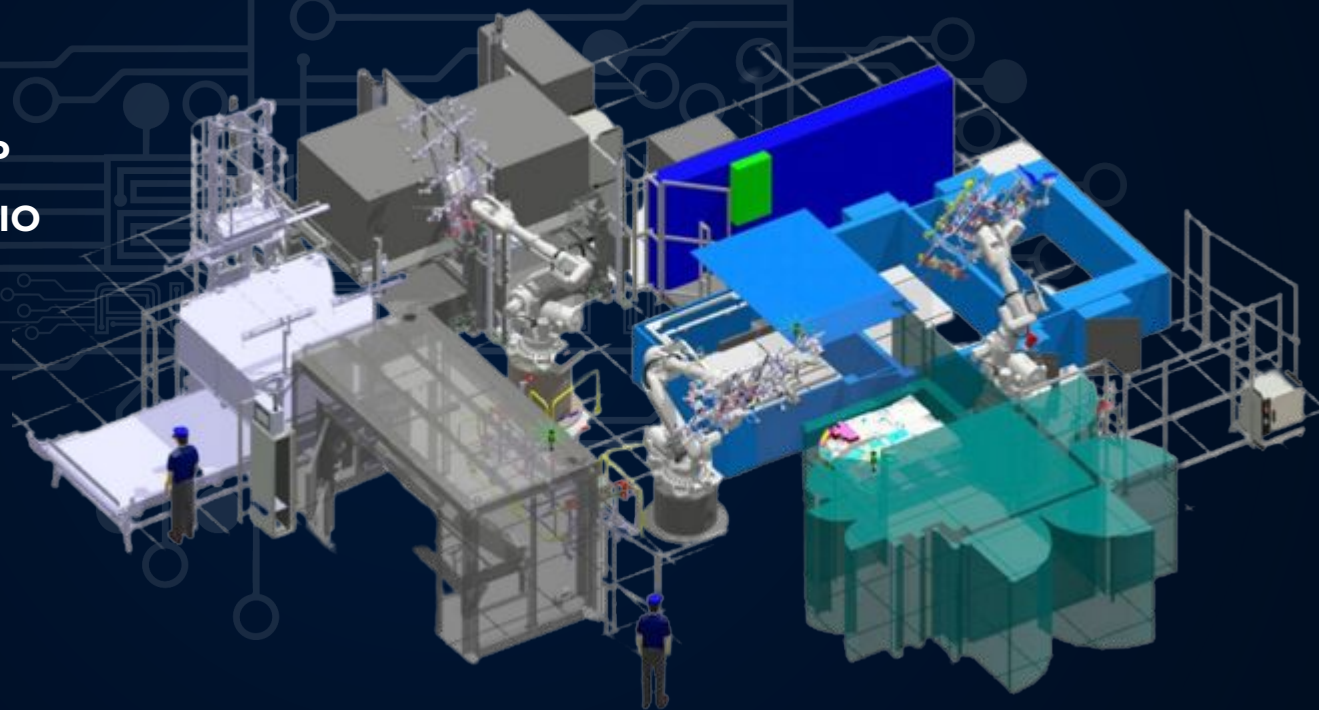
**SOW: SIMULATION, OLP**

**Software: ROBOT STUDIO**

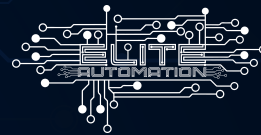
**Hours: 550 HRS**

**Timeline: 7 WEEKS**

**Team size: 2**







# VIRTUAL COMMISSIONING OF BIW LINES

**OEM: JAGUAR & LAND ROVER (JLR)**

**Product: FRONT DOOR & REAR DOOR**

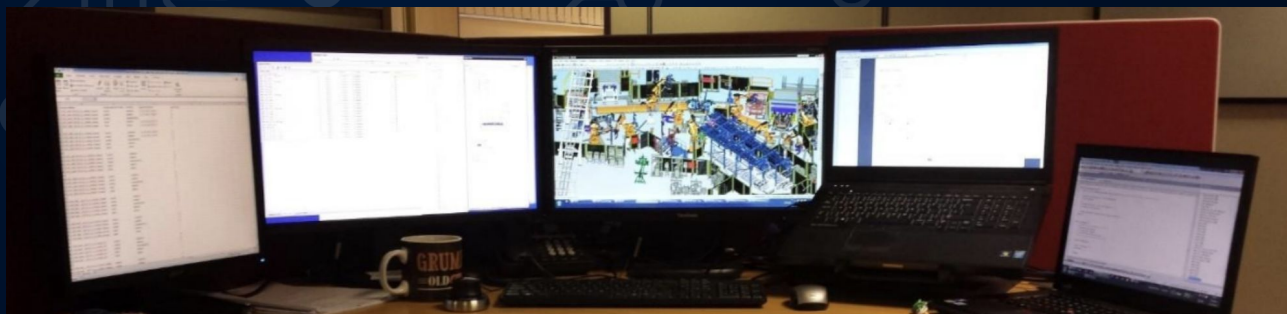
**SOW: VIRTUAL COMMISSIONING**

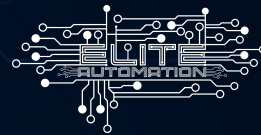
**Software: PROCESS SIMULATE, INTOUCH, ROCKWELL,  
ALLEN BRADLEY**

**Hours: 1150 HRS**

**Timeline: 8 WEEKS**

**Team size: SIMULATION - 4**

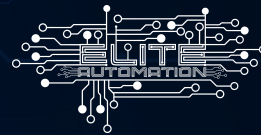




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## MAJOR ROBOTIC SIMULATION SOFTWARE

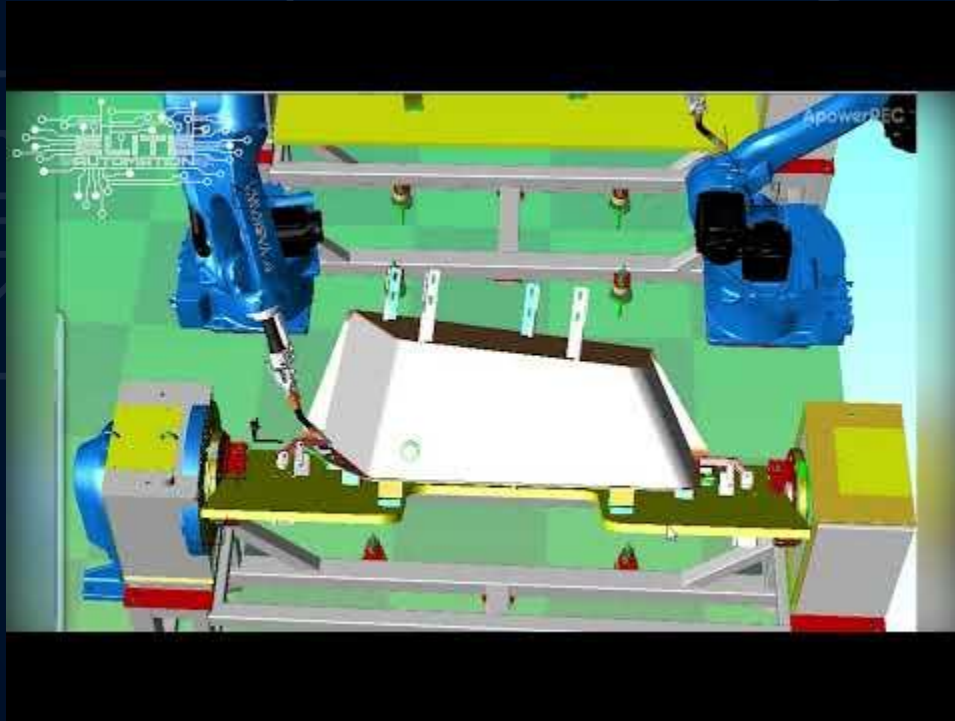
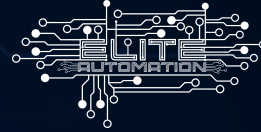
- ❑ Tecnomatix - ROBCAD
- ❑ Tecnomatix - Process Simulate
- ❑ ABB - Robot Studio
- ❑ Delmia - V5



## MAJOR DELIVERABLES FROM ROBOTIC SIMULATION

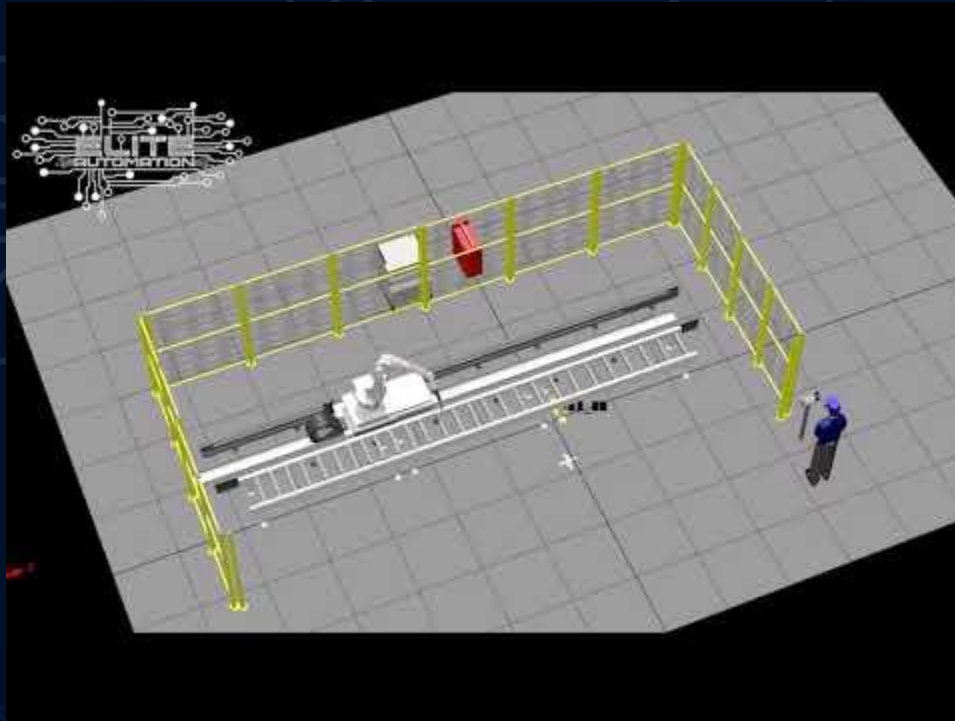
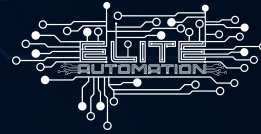
- ❑ Simulated Work-cells
- ❑ Realistic Robot Cycle Time Sheets
- ❑ Robot Mounting Sheets
- ❑ Simulation Movie Files
- ❑ Layout File
- ❑ Offline Programming (OLP)
- ❑ Robot Documents

# OTHER SIMULATION PROJECTS



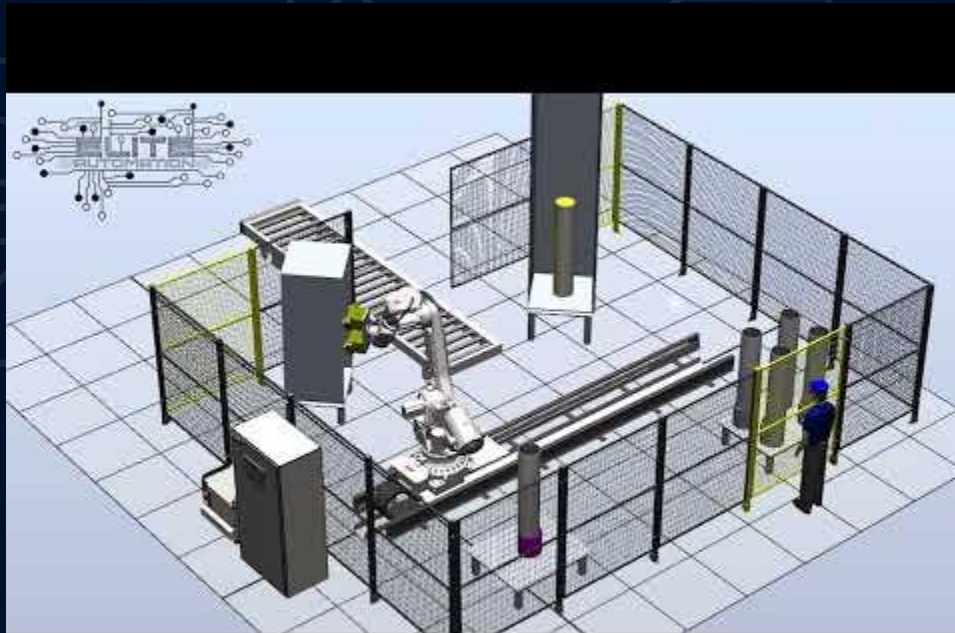
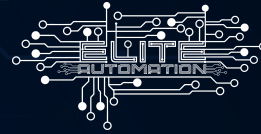
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## OTHER SIMULATION PROJECTS

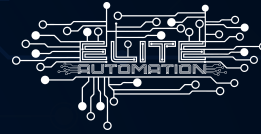


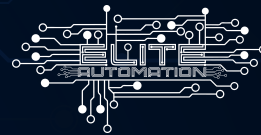


# OTHER SIMULATION PROJECTS



## OTHER SIMULATION PROJECTS





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# THANK YOU!

## ELITE AUTOMATION - USA

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Indiana 47711, United States  
*Location (<https://goo.gl/maps/zLsPCm8vdRGREqFFA>)*



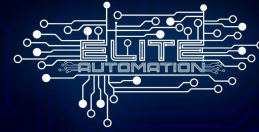
<https://eliteautomationusa.com/>



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