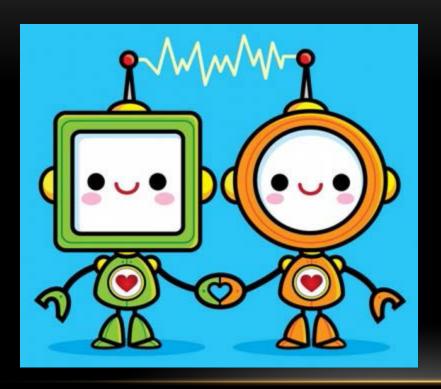
# WebGL Visualization Tools And GPUs For Marketing Of Robotics And Automation Products

Steve Rueckhaus

**Digital Marketing Specialist** 

Yaskawa America Inc. - Motoman Robotics Div.

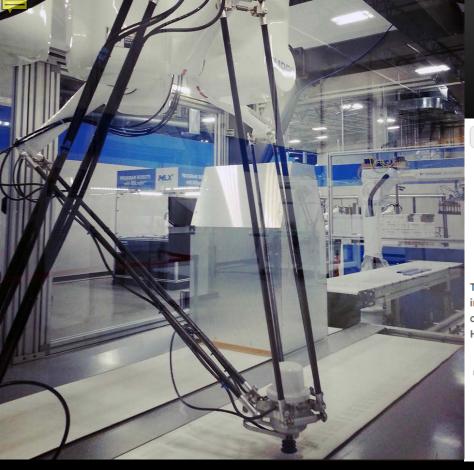
## "BOT" MEETS "GL"...



- Our First WebGL Project
- Tools Used
- Results
- Lessons Learned





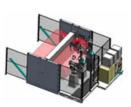


## CUSTOMER EXPERIENCE

#### **ArcWorld IV-6000 Series**







Trunnion positioner has servo motors on each station and main drive for rapid station indexing. Workcell is available in ultra space saving "slim-line" design or extra heavy duty model with 1200 kg payload. Workcell can utilize up to 4 robots for HyperProductivity®.

ArcWorld IV-6200XHD

ArcWorld IV-6300XHD

- ArcWorld IV-6000SL/SLHD
- ArcWorld IV-6200SL/SLHD
- ArcWorld IV-6300SL/SLHD

Real Life vs. Web





#### TIME TO GET CL3VER



- Cloud based platform to create and publish interactive 3D presentations.
- CL3VER Presentations offer a new way to explore design projects or products from any angle at any time any where.

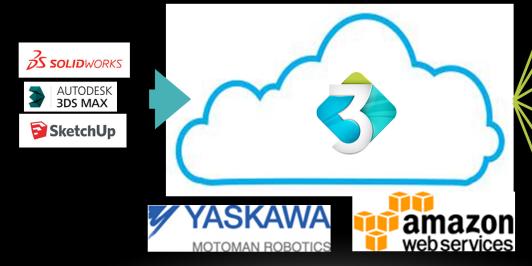


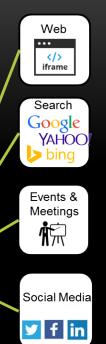
# DEVICE AGNOSTIC





## **NOT PICKY ABOUT PLATFORMS**











#### HOW THE SAUSAGE IS MADE

Storyboard







Rendering



Prep



# IN CL3VER

Import

Insert Scene

Materials

Presentation

View

\*Robotic Packaging Solutions



































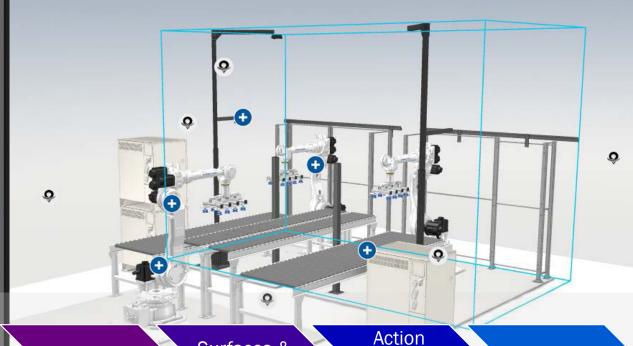




Surfaces & Lighting



**Publishing** 









#### **RESULTS**



- Booth Leads Nearly Doubled From 2013 Show
- Web Visits Continue:
  - 3X average time on site
  - 2X more pages/session
  - 50% Fewer Bounces
  - 5X higher conversion rates

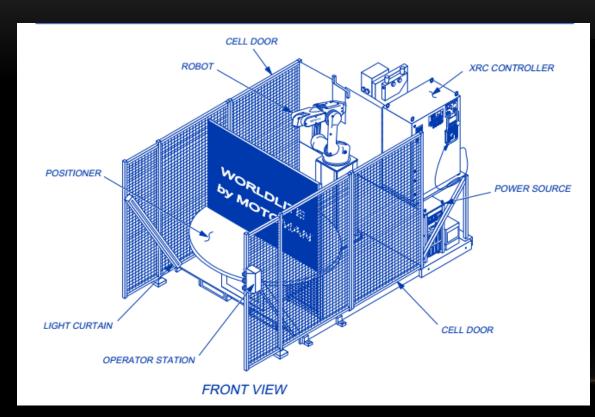


#### LESSONS LEARNED



- User Experience Trumps Realism (if you can't have both)
- Keep it Light, Keep it Simple
- Establish 3D Asset Standards
- Optimize Internal Workflow
- Designate Resources

### **FUTURE PROJECTS?**



- Interactive User Manuals
- Concept Drawings for Customer Proposals
- Robotic Motion Simulation
- Offline/Remote Robot Programming

#### THANK YOU!

- Contact Me
  - steve.rueckhaus@motoman.com
  - LinkedIn: /in/steverueckhaus
- Feedback
  - Please complete the Presenter Evaluation sent to you by email or through the GTC Mobile App. Your feedback is important!

