ROBOT DESIGN

NVIDIA OMNIVERSE

CINEMA 4D by MAXON

blender

Rhinoceros modeling tools for designers

:::ROS

Link your robot service to our **Metaverse**.

Save **90%** time and cost for robot **design**, **training**, **testing**, and **management**

Reduce **90%** robot task failure rate to bring more **safety**, **trust**, and **reliability**

1. Digital Twin

We model **rigid bodies**, **robots**, and **fluids** with high fidelity in metaverse.

We create digital twins in a **photo-realistic** and **physics-realistic** manner.
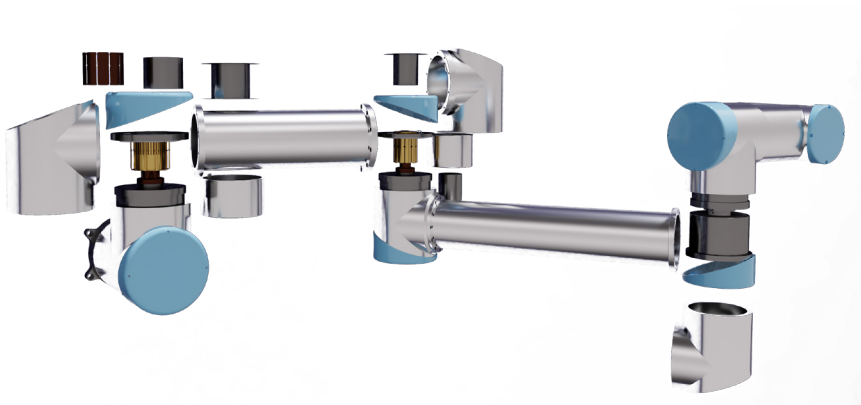
2. Robot Flexibility

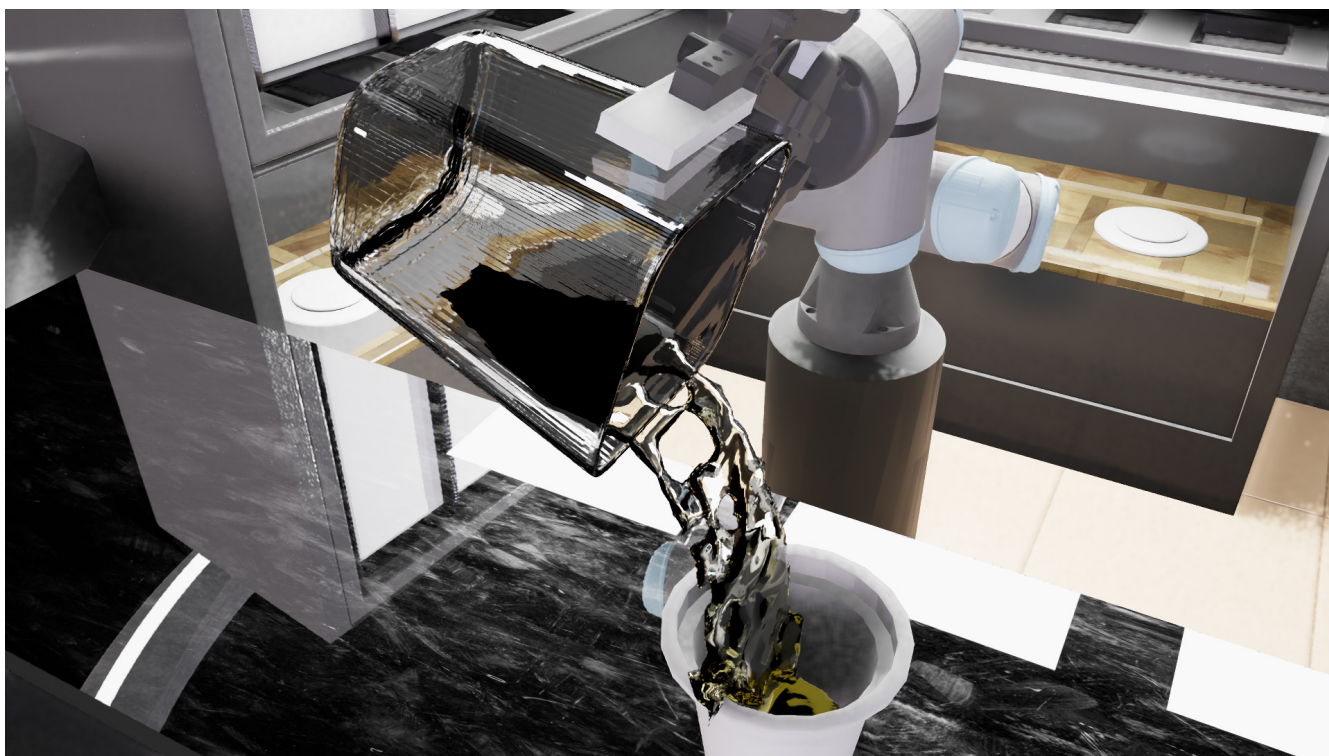*Denso vs60*   *Denso cobotta*   *Mycobot Pro*

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universal robot

We provide **100+** robot-gripper combination. You synchronize the robot in metaverse and reality.

3. Motion Planning

We provide the sota **Riemannian Motion Policies** to plan **collision free** robot motion

Robot Prim Path:	/World/denso_v6_rg2/denso		
End Effector			
Transform	X 0.4	Y 0.2	Z 0.3
Orient (Euler)	X 0.0	Y 0.0	Z 0.0

Update EE Target
Open/Close Gripper

Joint Angle (read only):	j1 8.09554	j2 68.91198	j3 112.8948	j4 -81.85478	j5 -89.90623	j6 -1.49242
EE Position(read only):	x 0.28226		y 0.10321		z 0.14419	
EE Quaternion(read only):	w 0.49737	x -0.50004		y 0.503	z 0.49957	

We also enable **Custom Motion Policies** that provide information for *joint angles, cartesian axes, and PID controller* information.
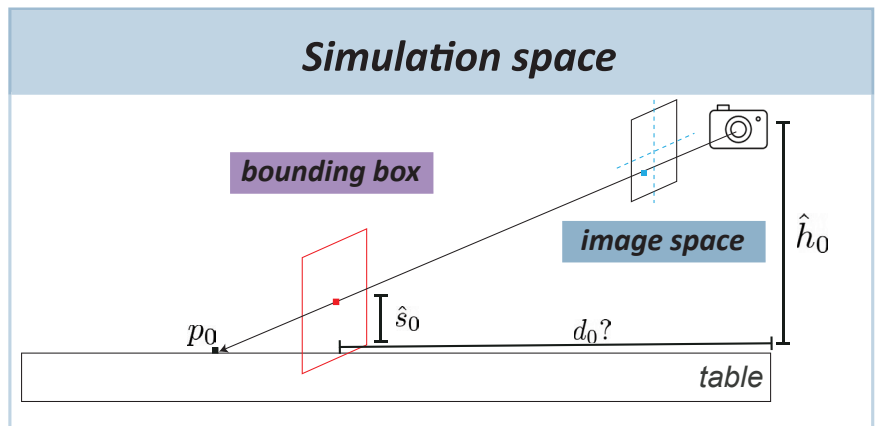
4. Embrace
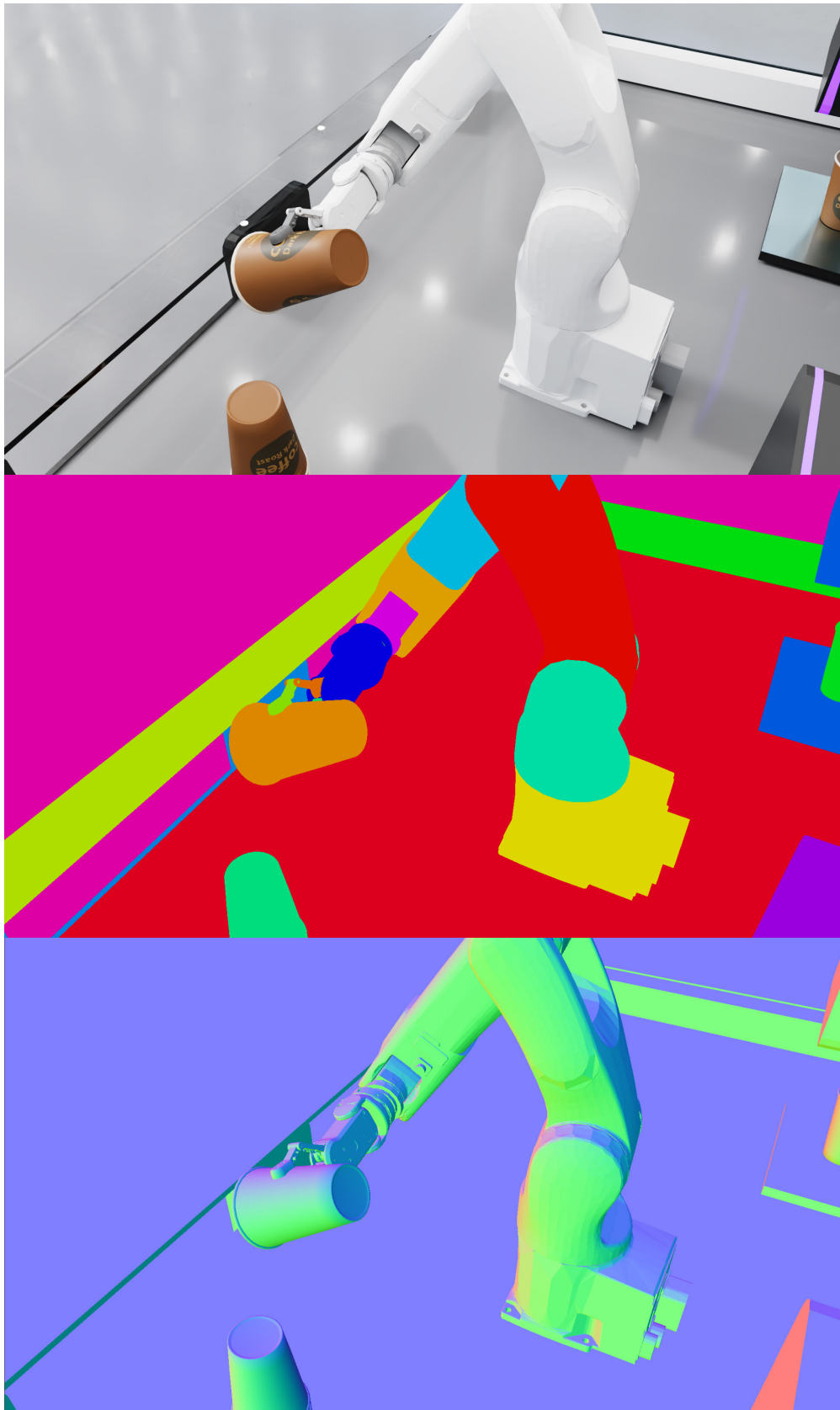## Artificial Intelligence

Vision Module

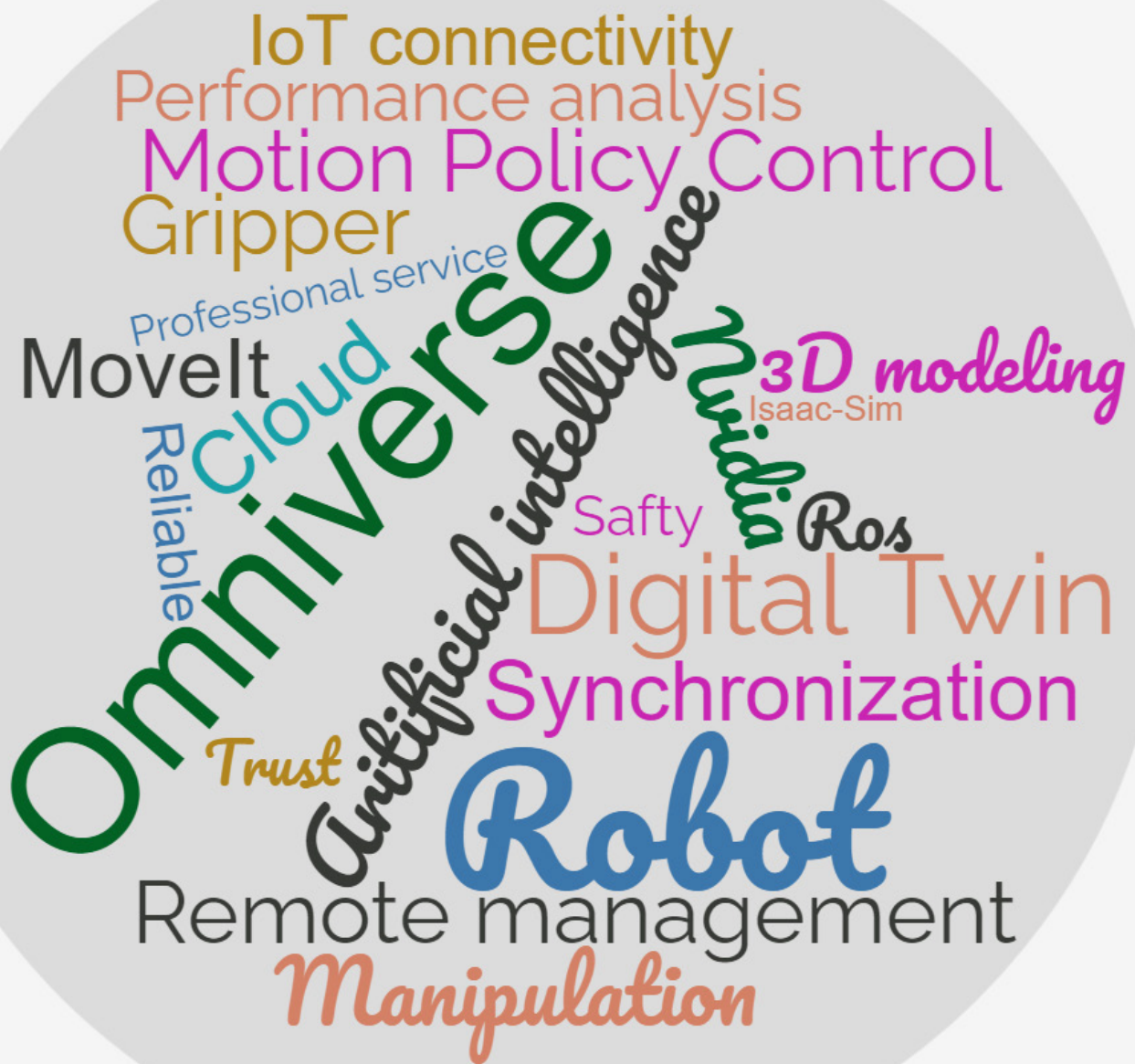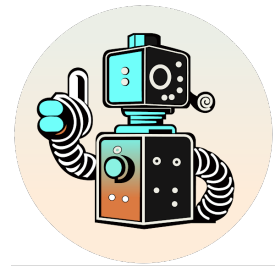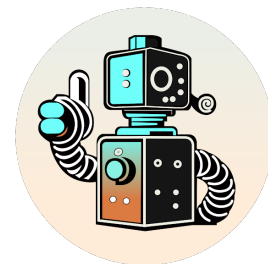**+**

Digital Twin

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3D Scene Understanding

We train the robot by large vision/language models e.g. **GPT-4/Segment-everything** that provide information for *scene understandings, and instructed motion planning*.

Our
Professional Services

Get in touch

Thank you for your interest
in **Digital Bot Lab, Inc**!

We look forward to working with you!

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