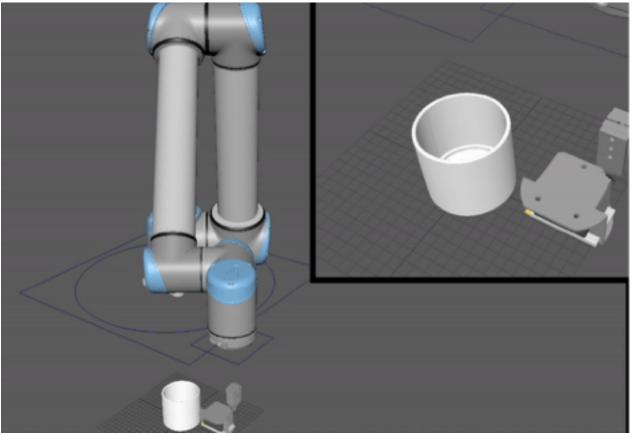


#### Maya-Mimic Simulation of Assembly Motion Plan

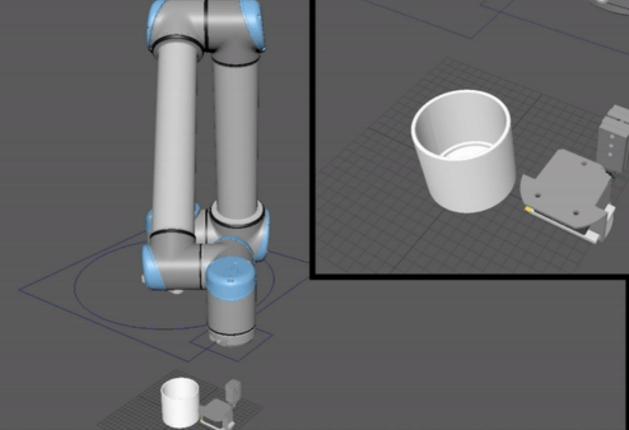


# Inputs CAD Assembly Assembly Plan

Robot Inverse Kinematics

Work Cell Info

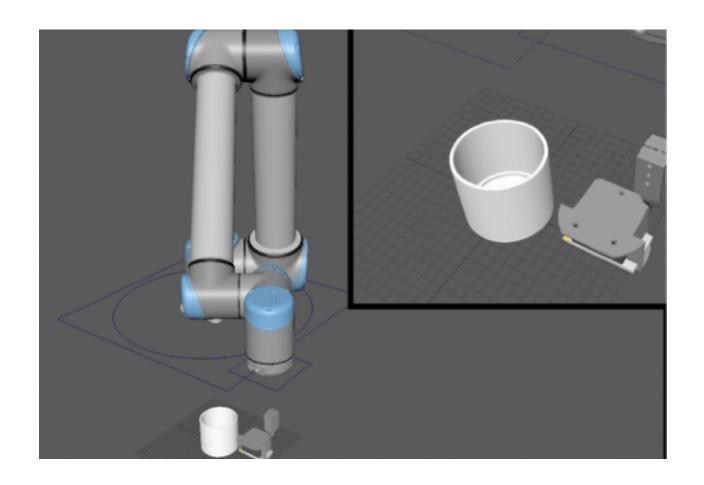
## Robotic Assembly



## Robotic Assembly

### Inputs

- CAD Assembly
- Assembly Plan
- Work Cell Info
- Robot Inverse Kinematics



Maya-Mimic Simulation of Assembly Motion Plan



## Discrete Motion Planner

 Developed a randomized A-Star Motion Planner

 Implemented in Fusion 360 and Bullet C++ Based Environment

 Integrated A Collision Checking Library with Project ARAAS

