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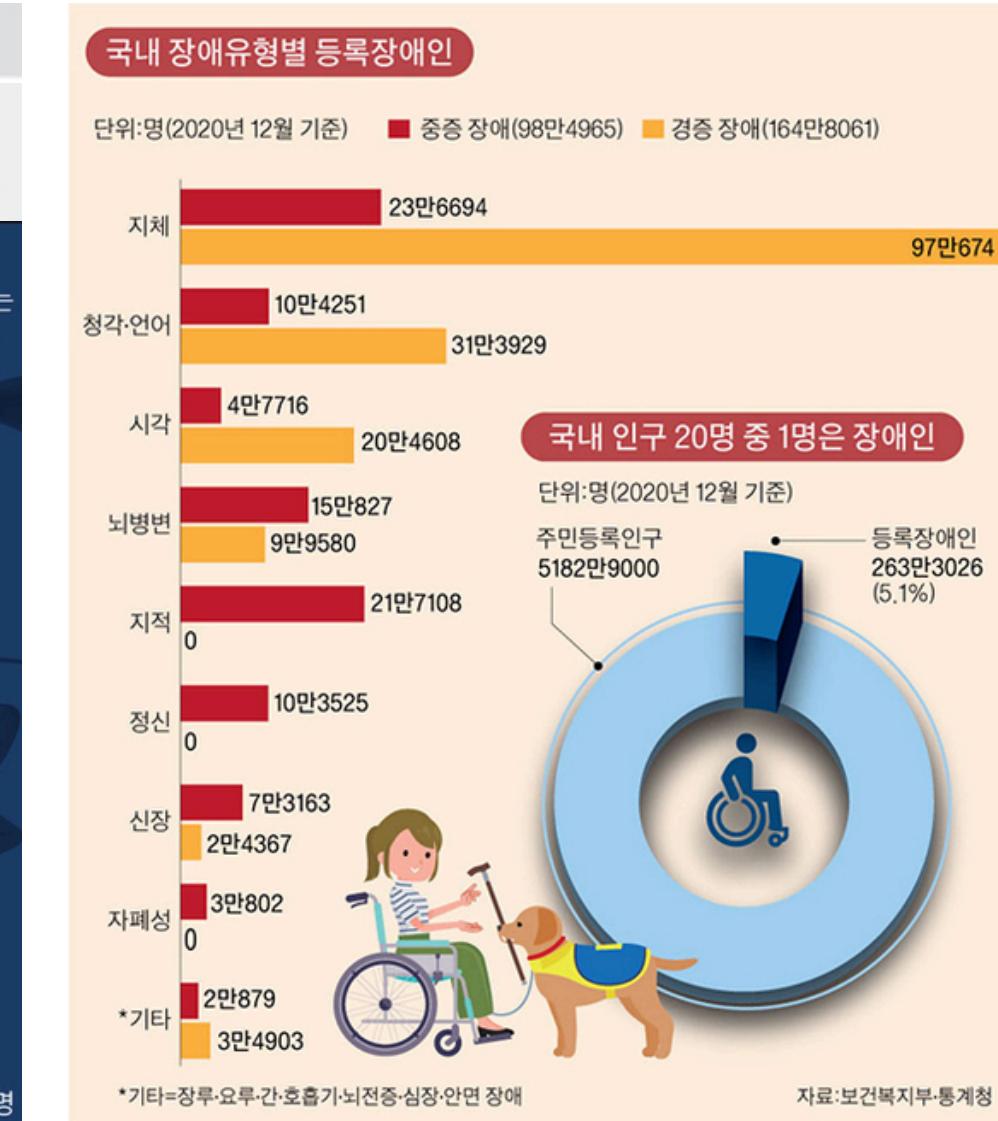
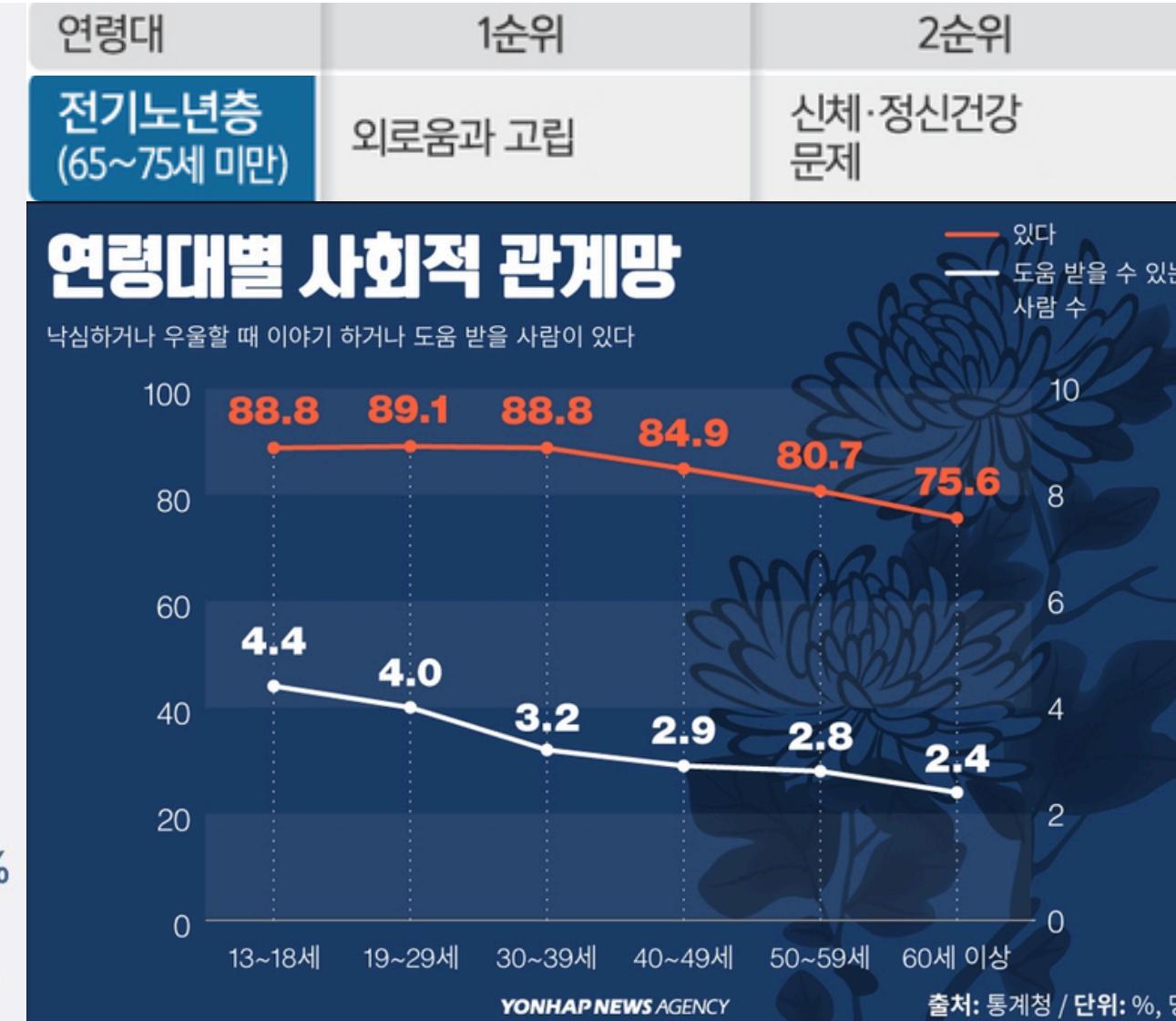
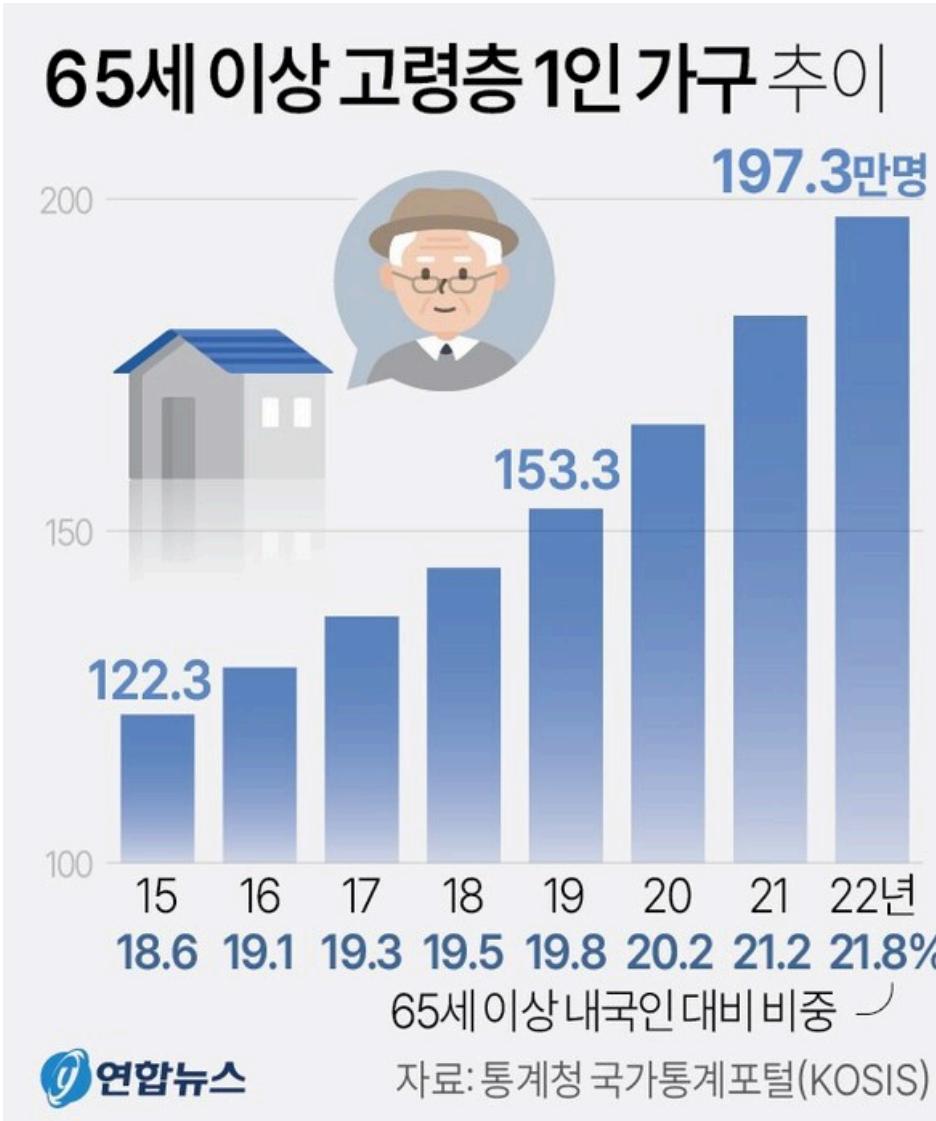
# 생성형 인공지능을 탑재한 장애인 생활 보조 휴머노이드 로봇

Humanoid Care Robot with Generative Artificial Intelligence

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박영준 최주성  
김도현 신준섭  
모지원 조세빈

# 돌봄로봇의 필요성

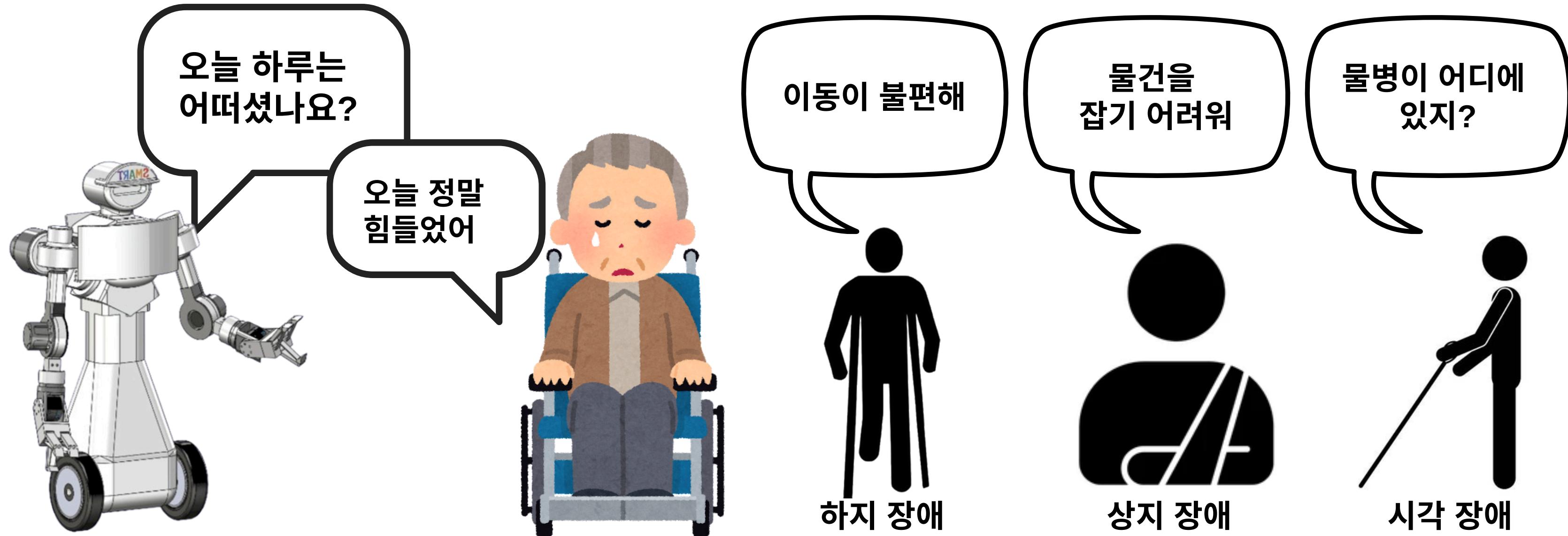


## 고령화 1인가구 증가

## 국내 장애유형별 등록 장애인

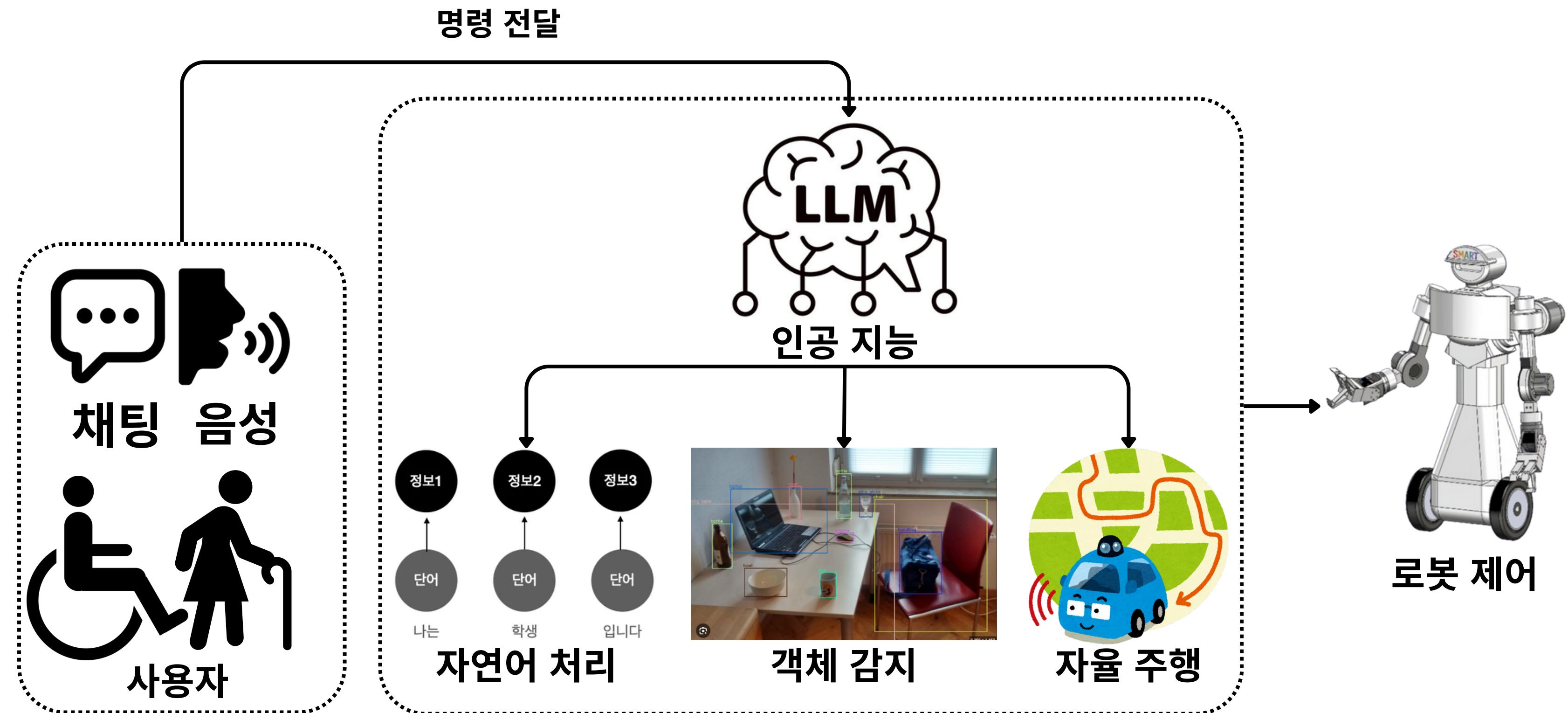
# 어떤 도움이 필요한가?

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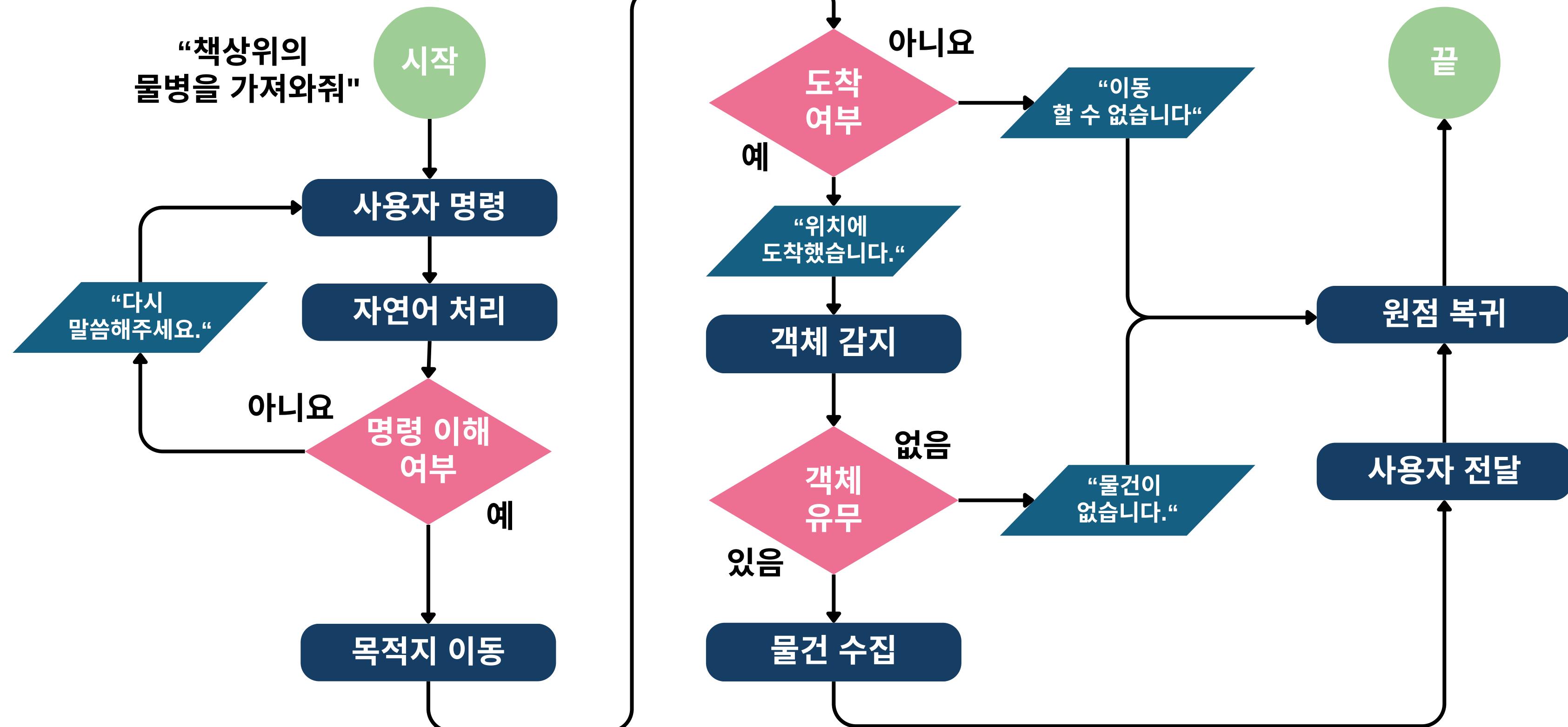


# 시스템 구성도

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# 예상 시나리오



# LLM: Large Language Model

```
GRAP_TOOL={  
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  "parameters": {  
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      },  
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}
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함수 등록



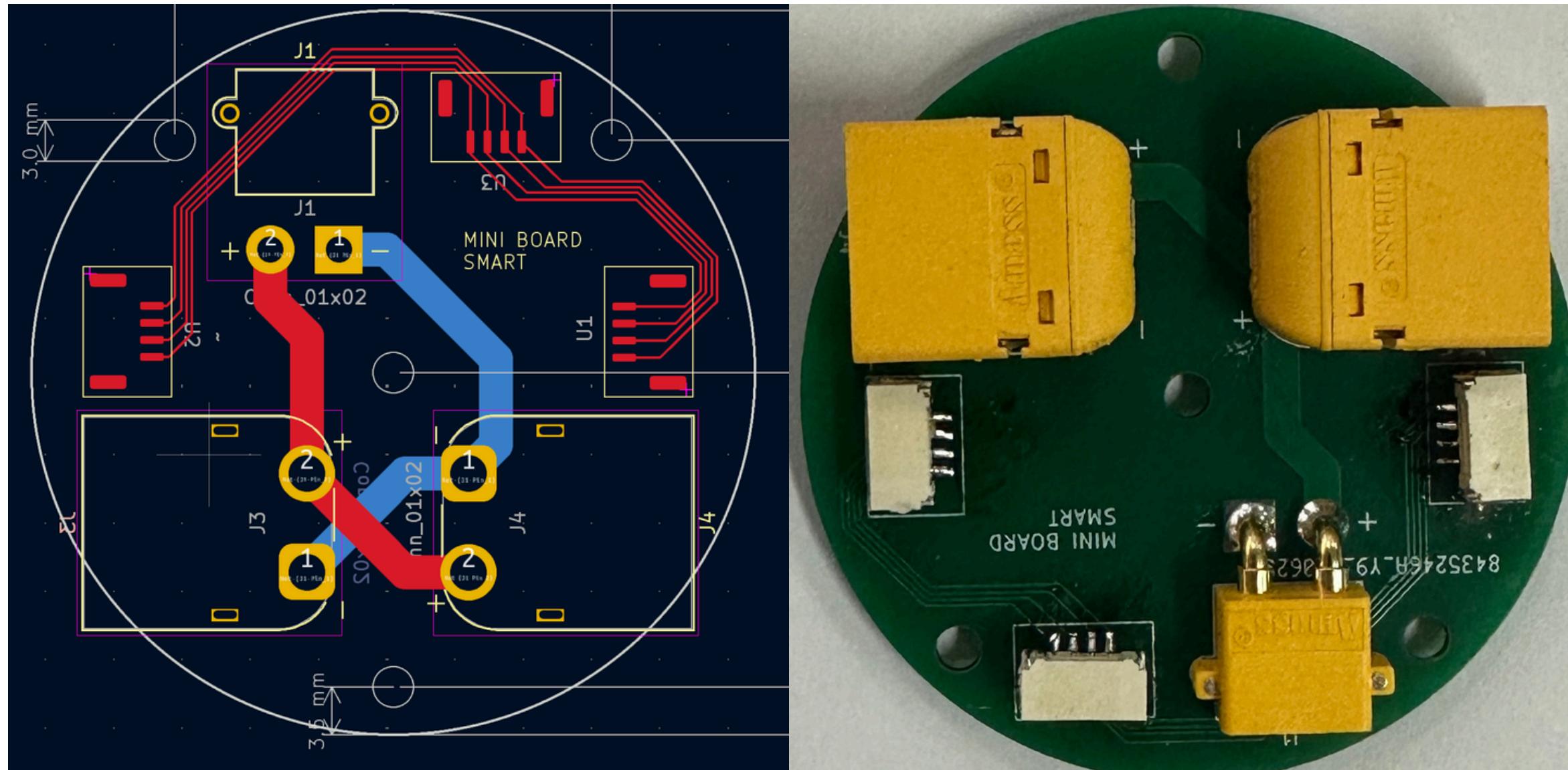
# 시스템 설계

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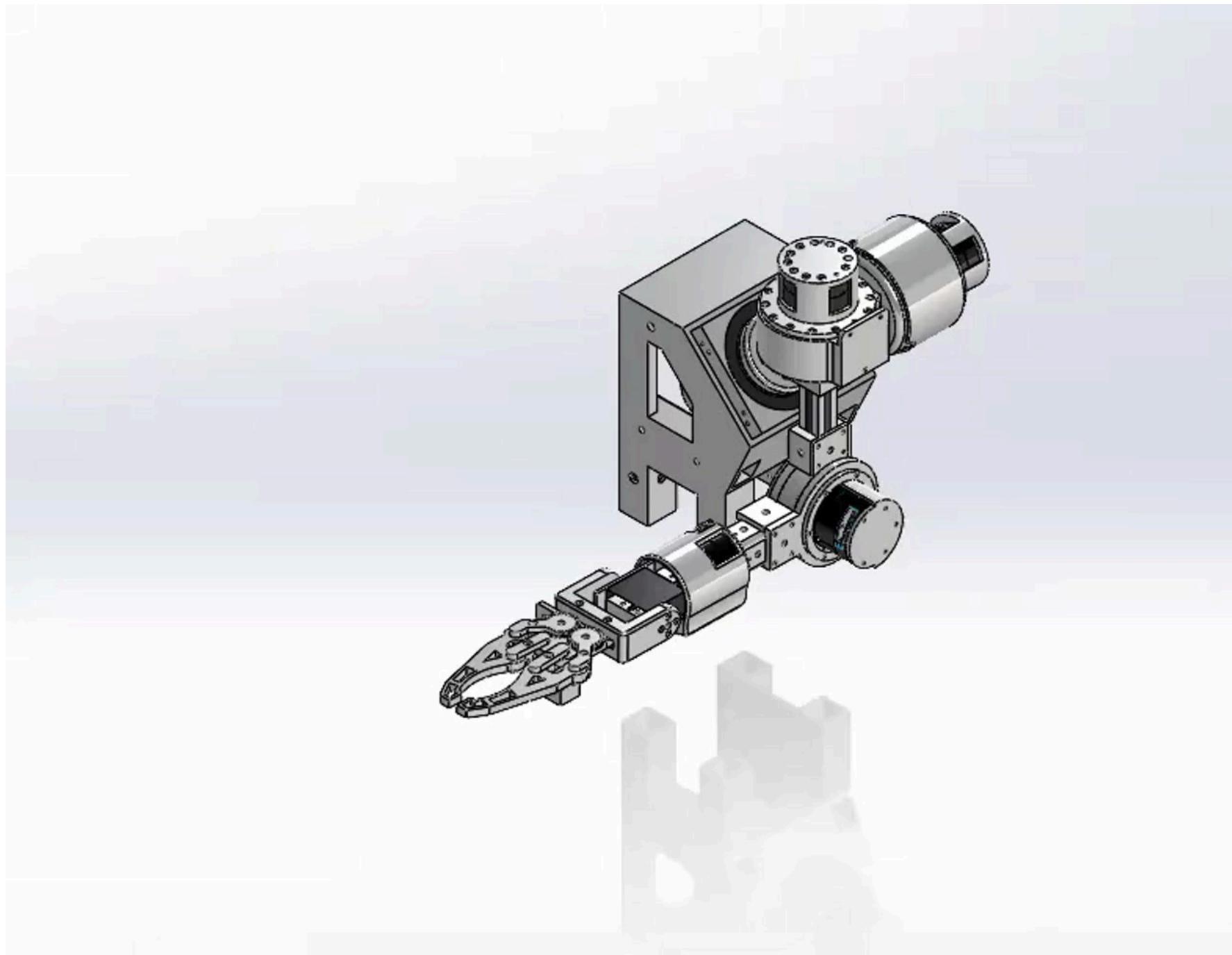


# PCB

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모터 전원 분배 보드



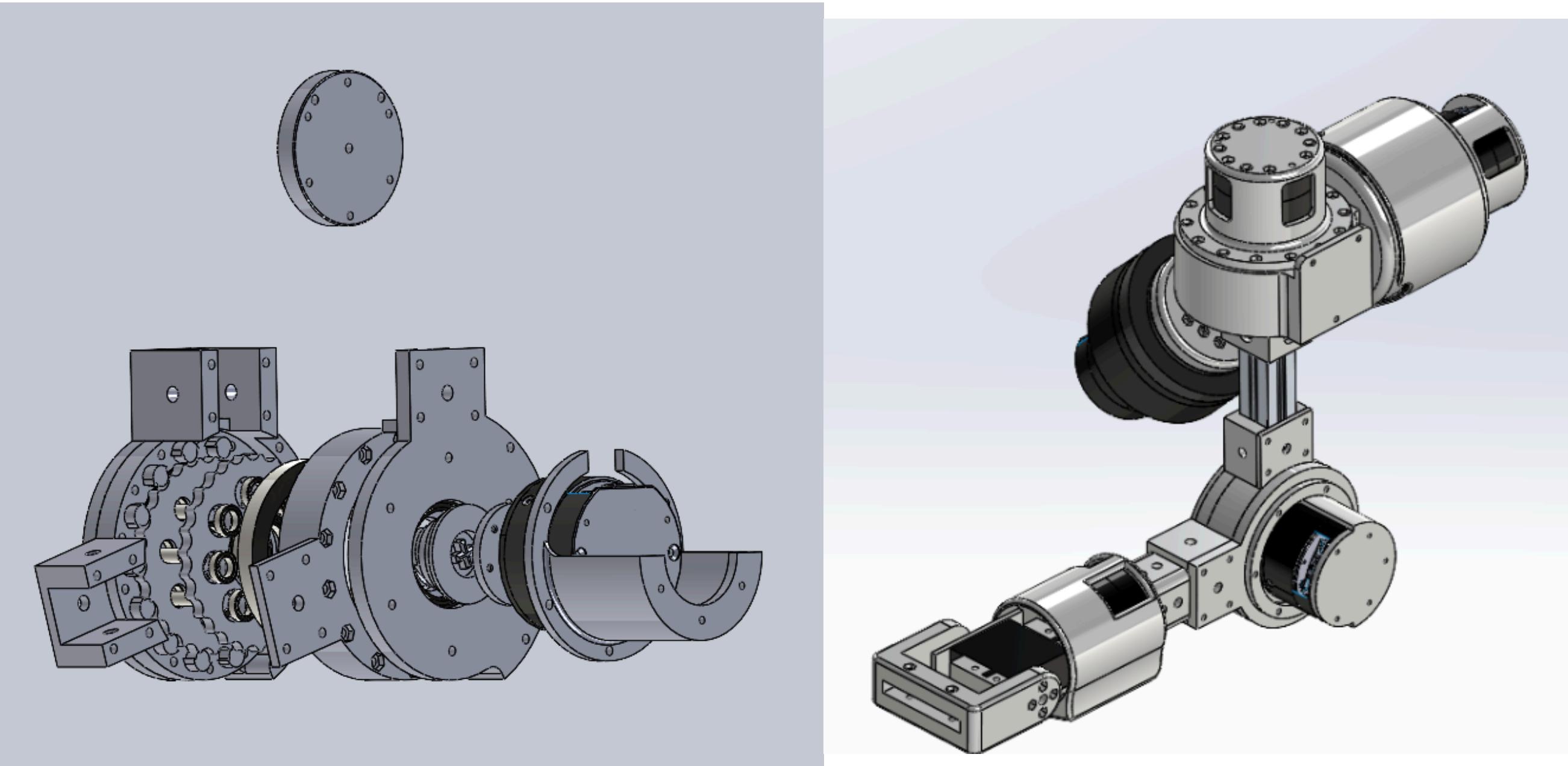
6 자유도 로봇팔



사이클로이드 감속기

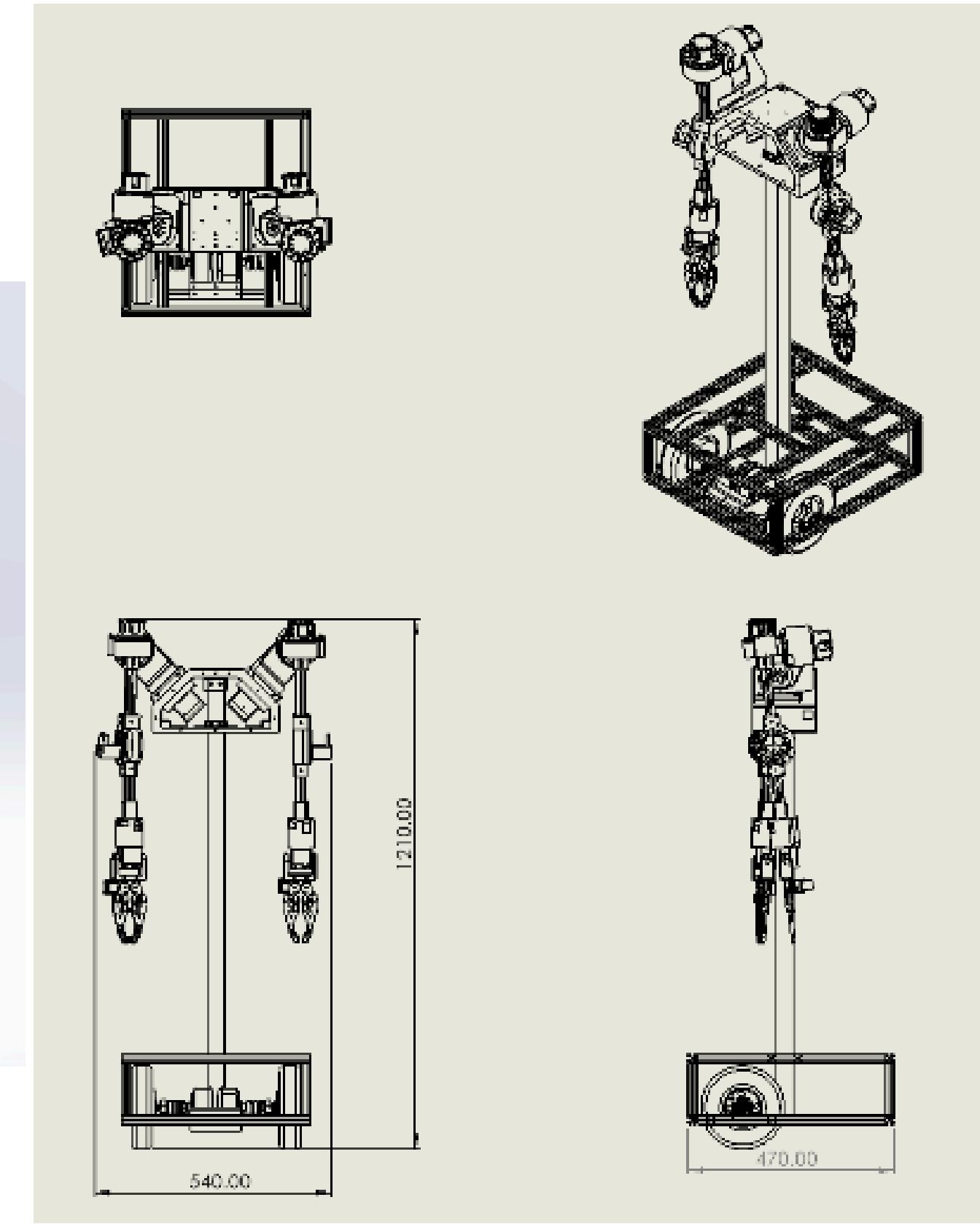
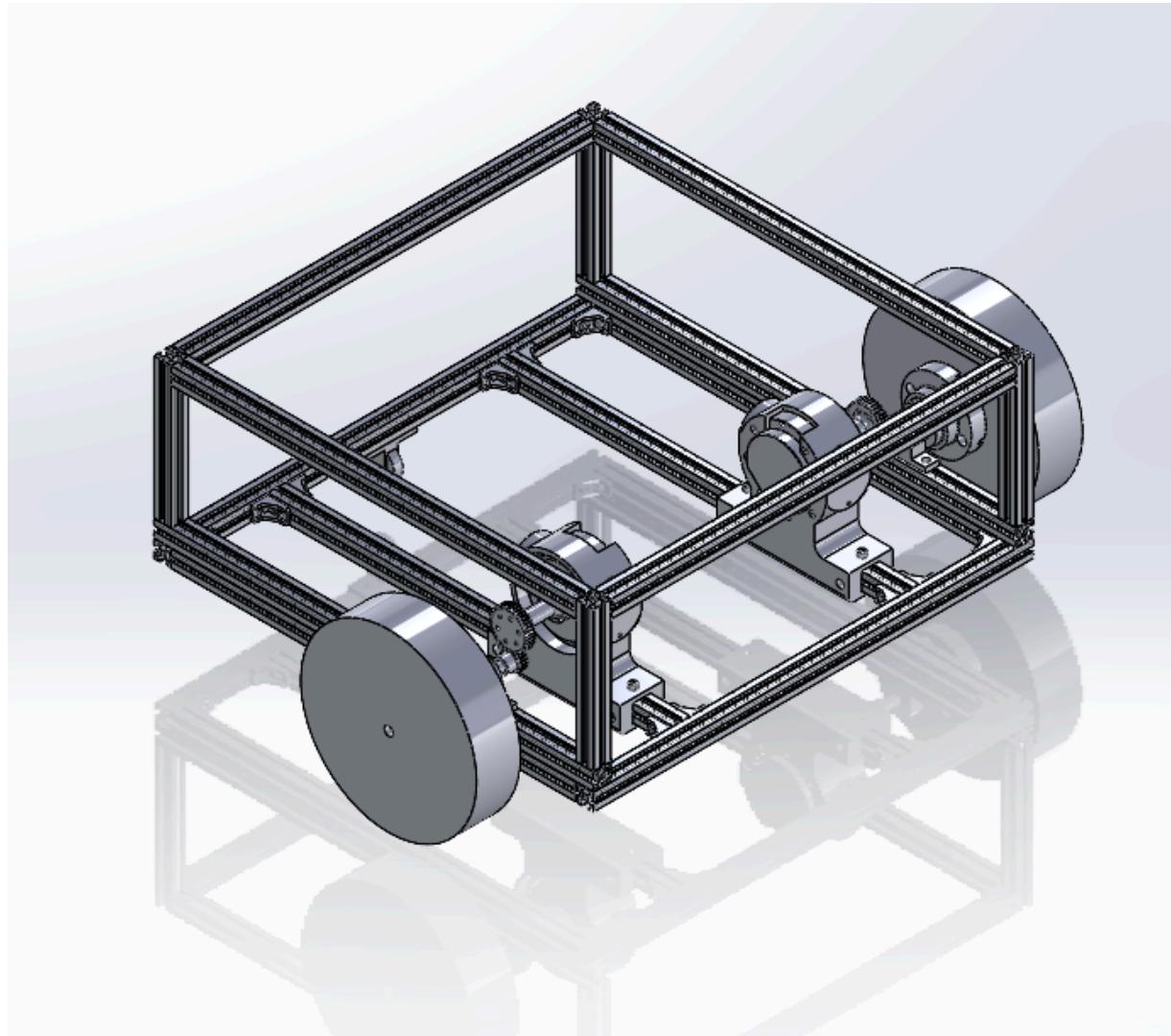
기구

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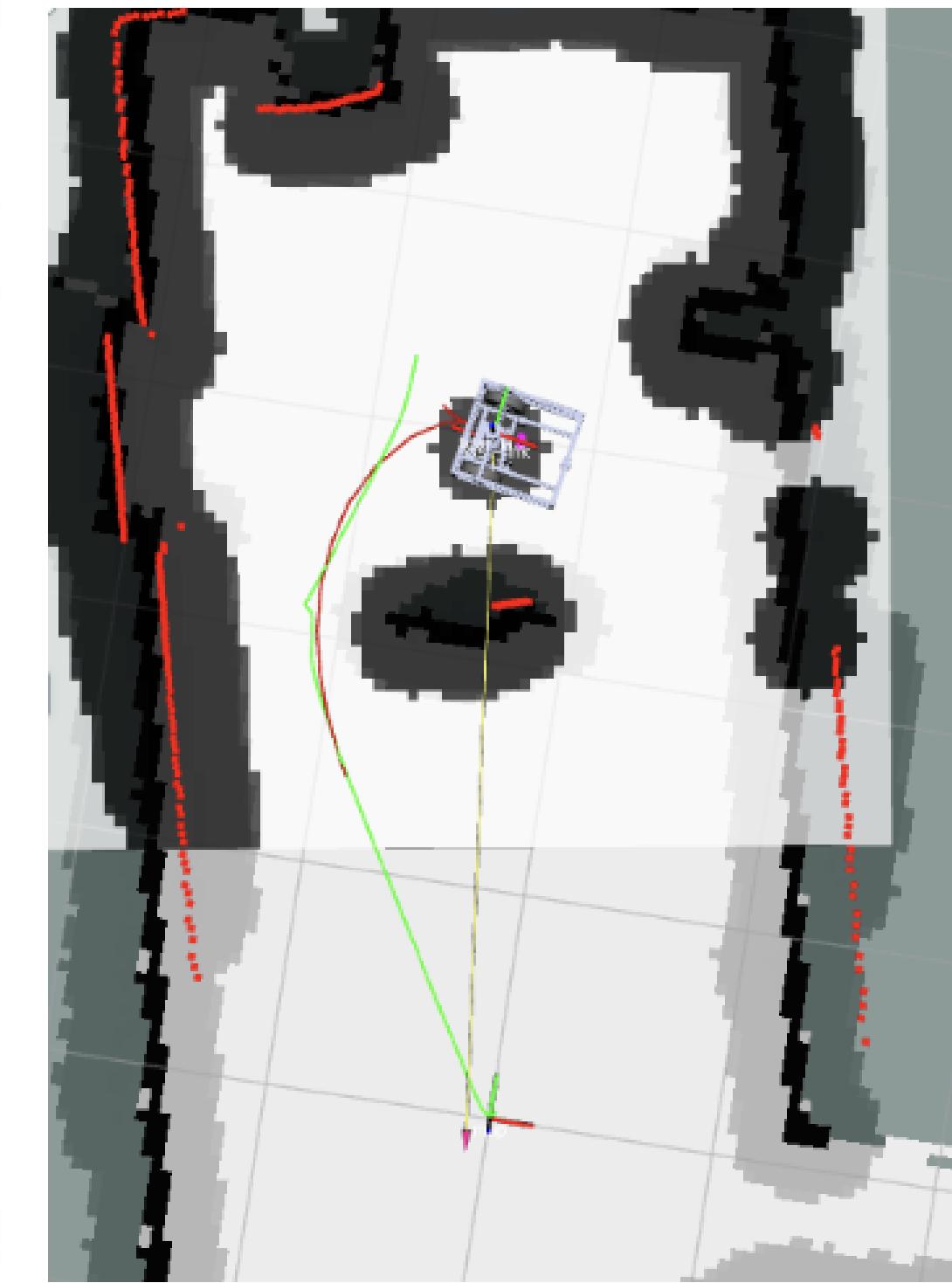
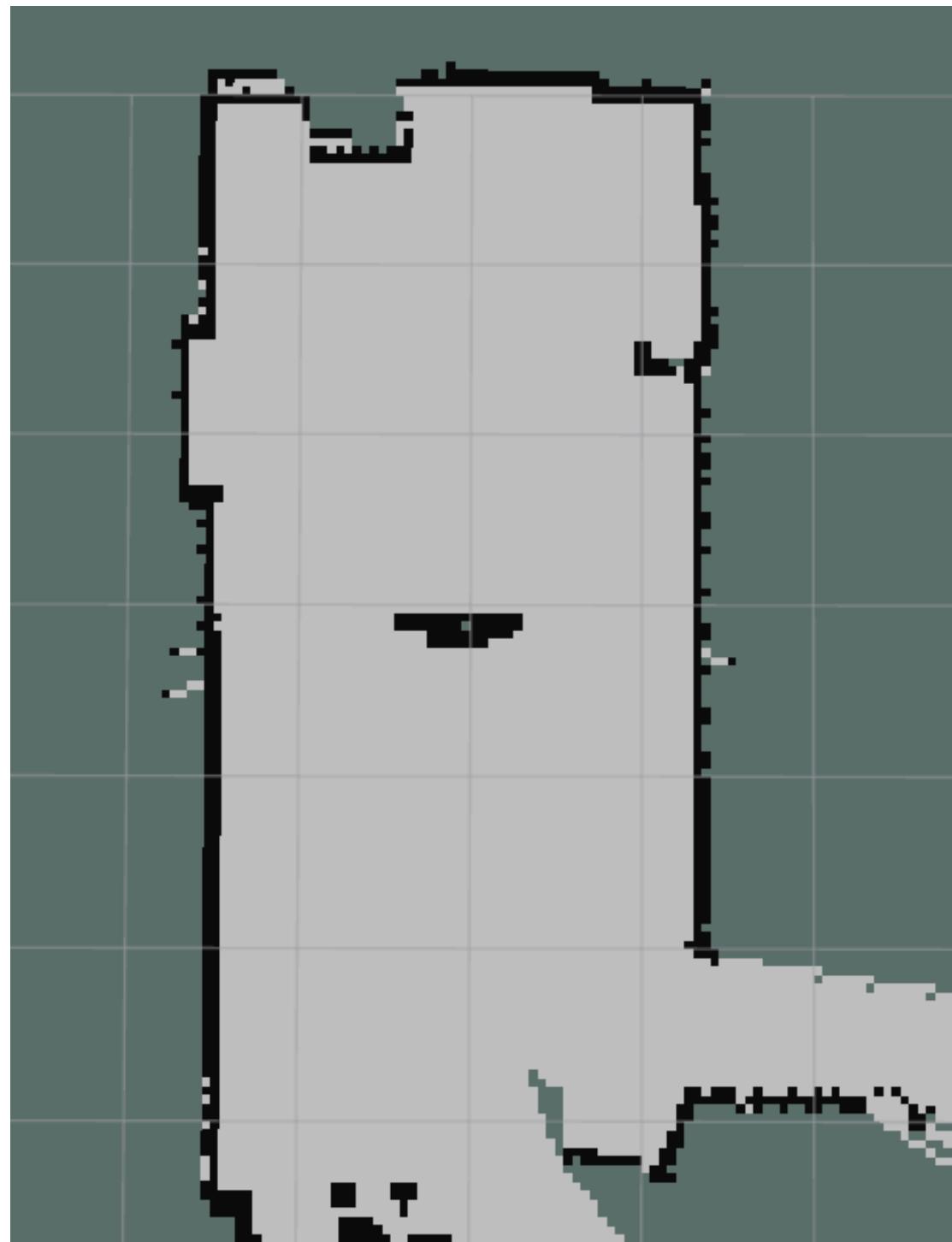
# 기구

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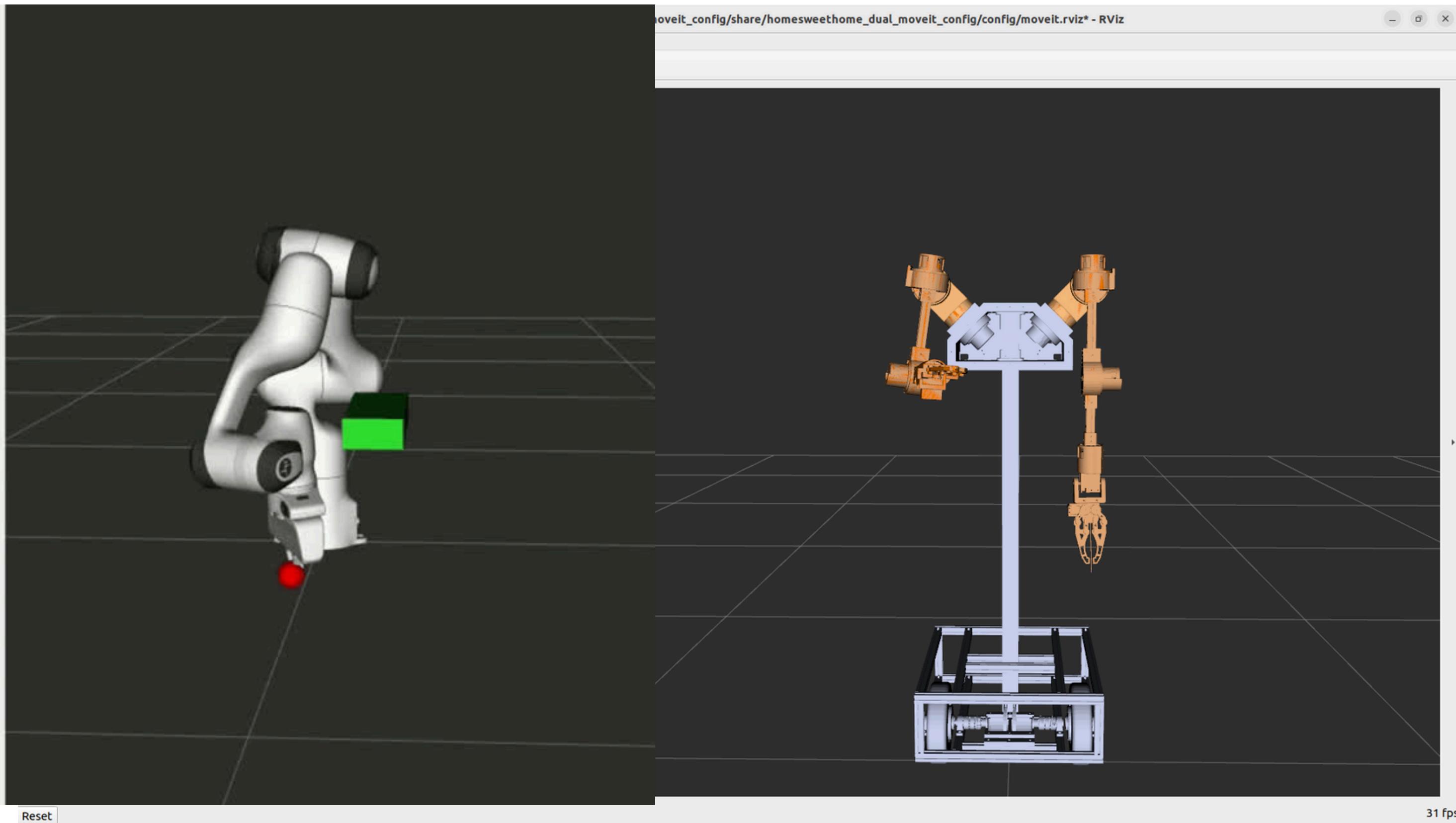
# 장애물 회피 자율주행

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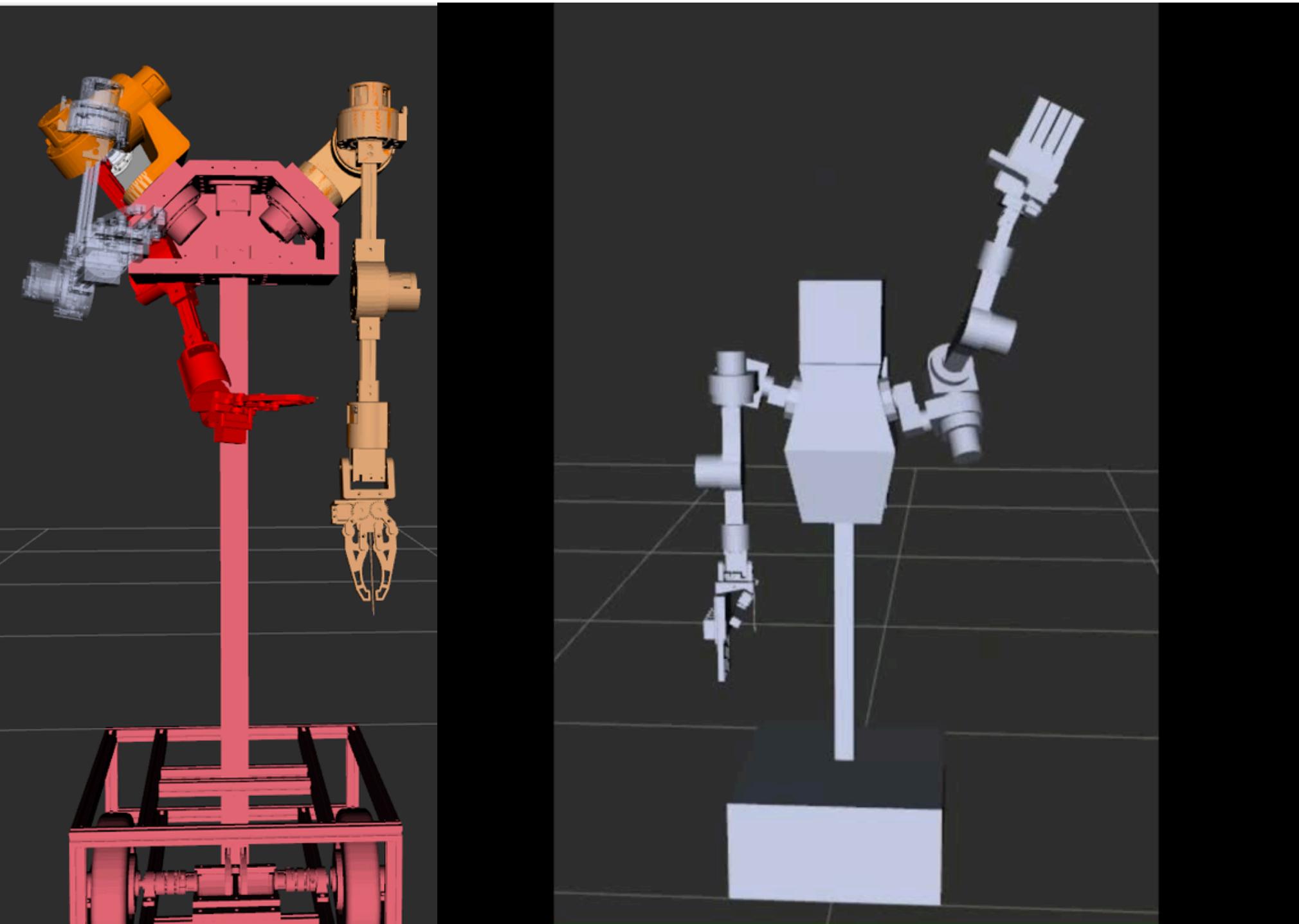
# 팔 모션 플래닝

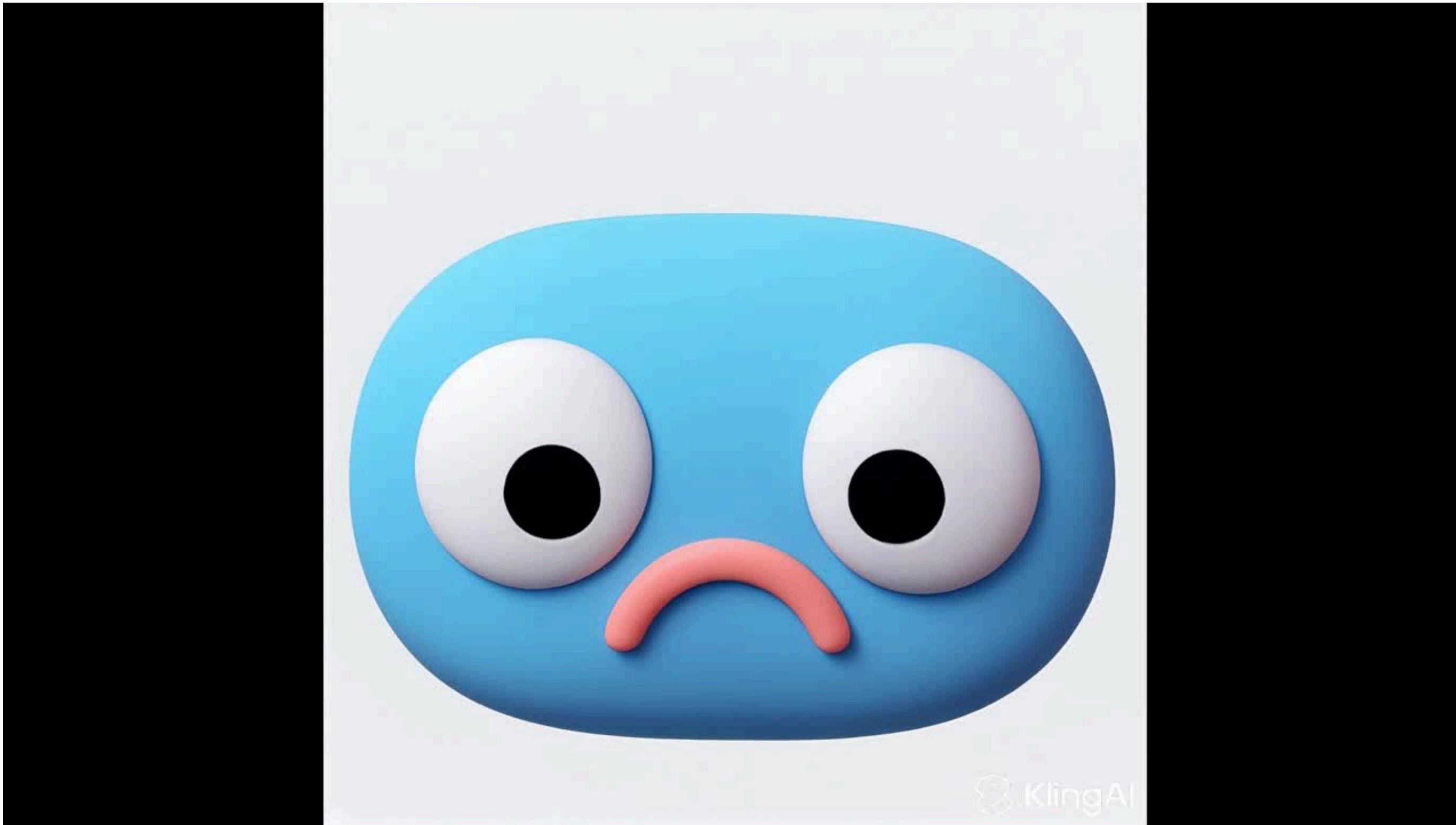
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# 팔 모션 플래닝

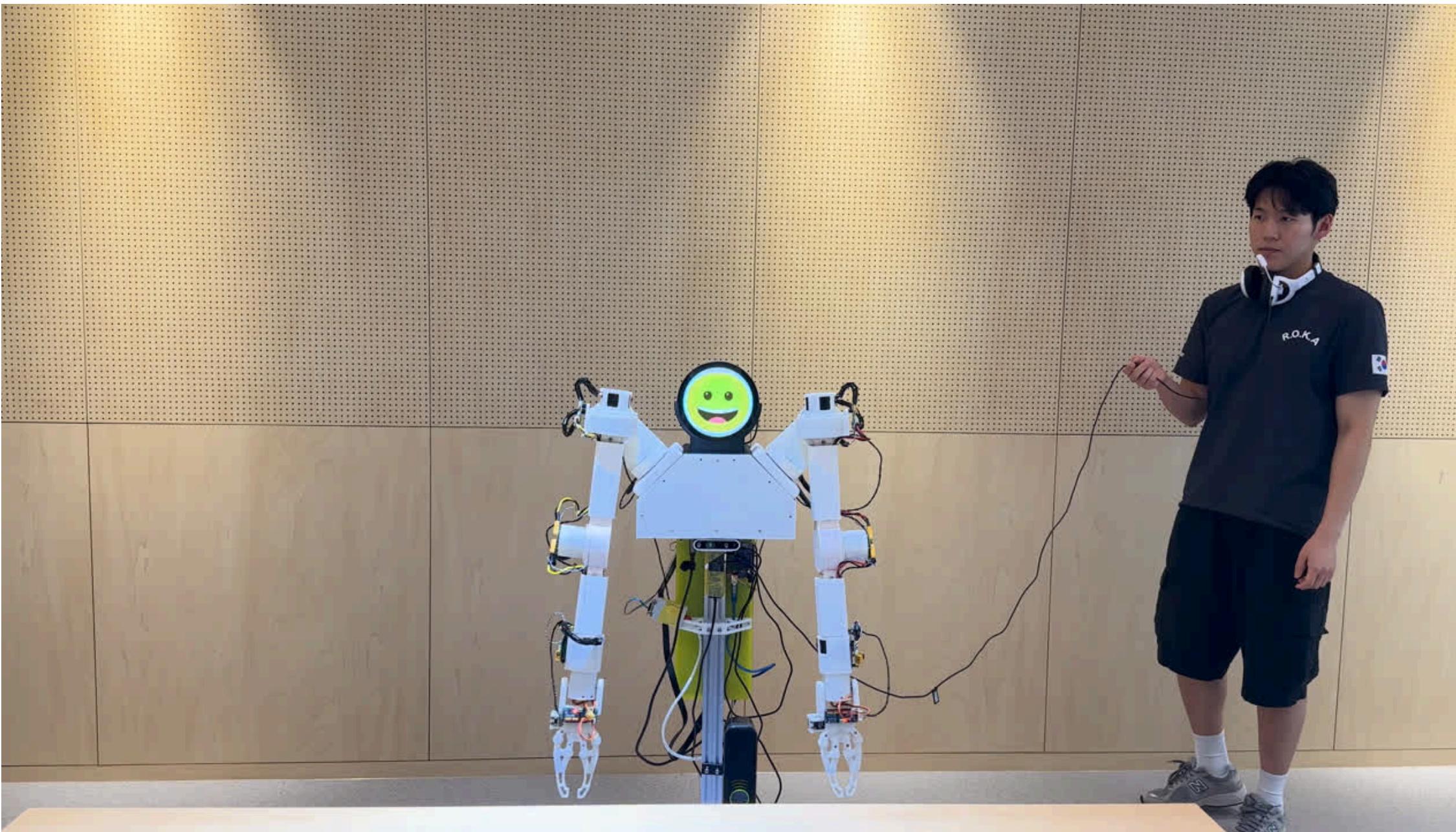
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# 프로토타입\_V1

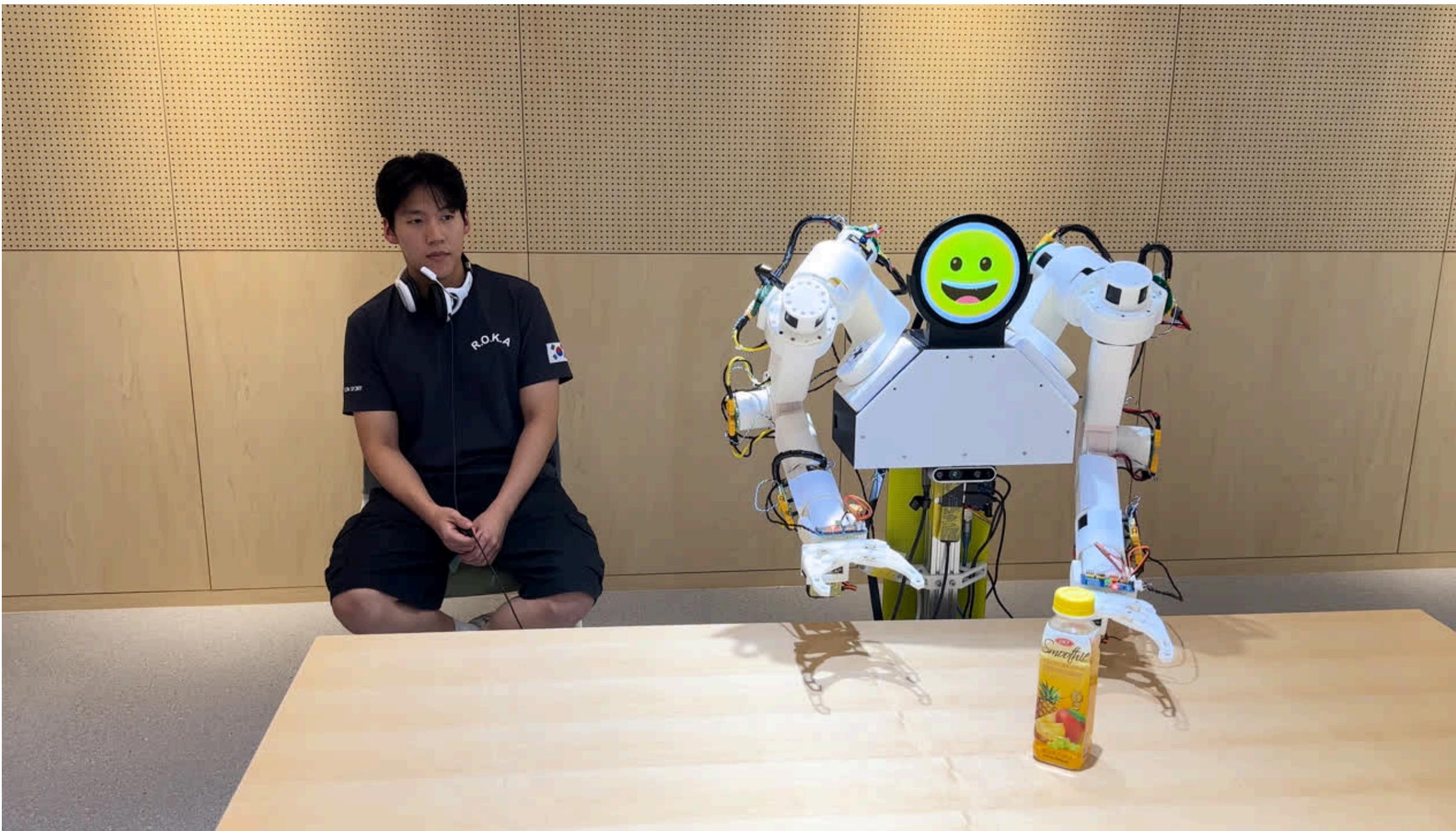
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음성 명령을 통한 로봇 제어

# 프로토타입\_V1

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예상 시나리오 동작

# 프로토타입\_V1

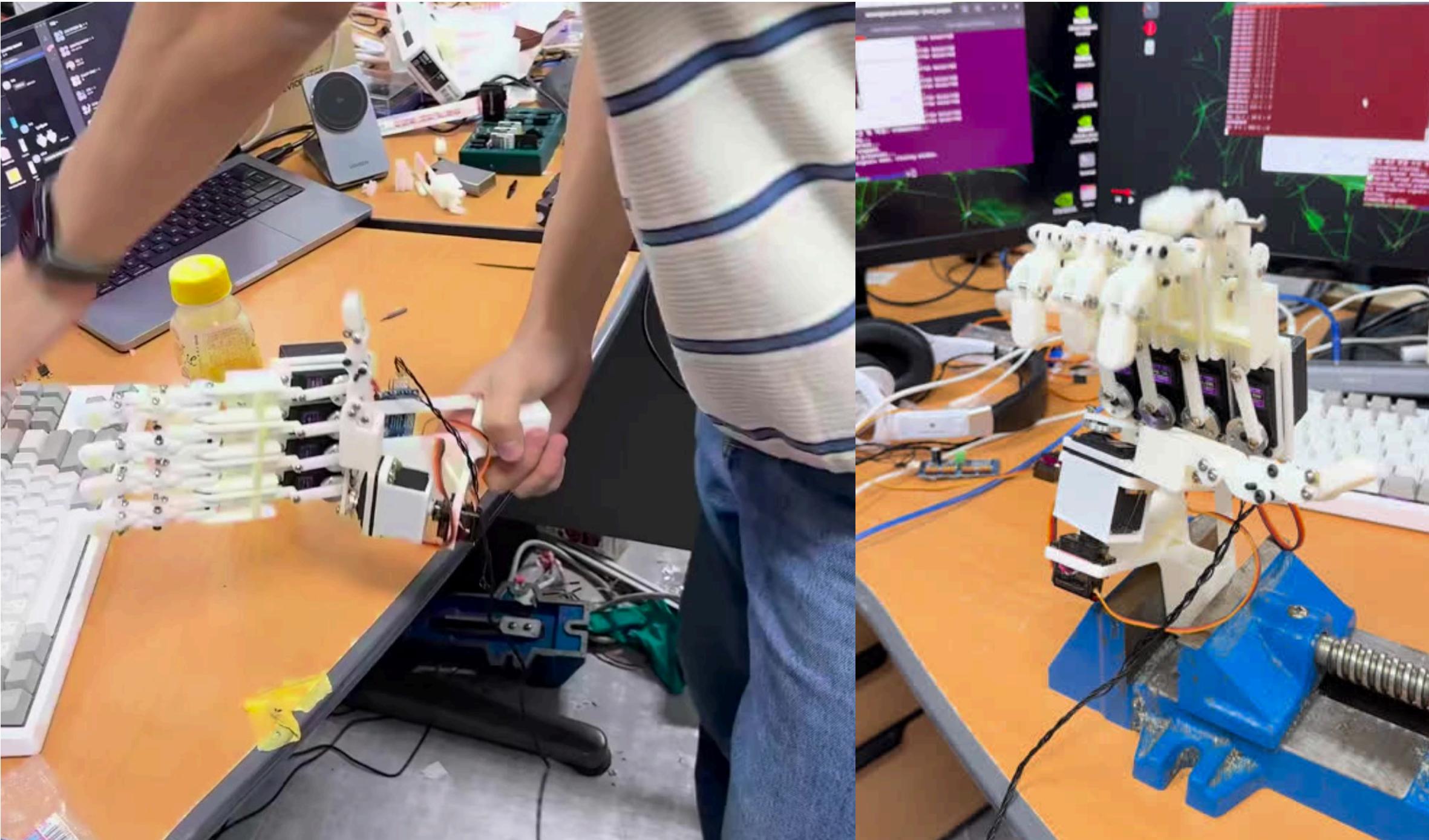
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예상 시나리오 동작

# 프로토타입\_V2

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로봇 손 제작

# 프로토타입\_V2

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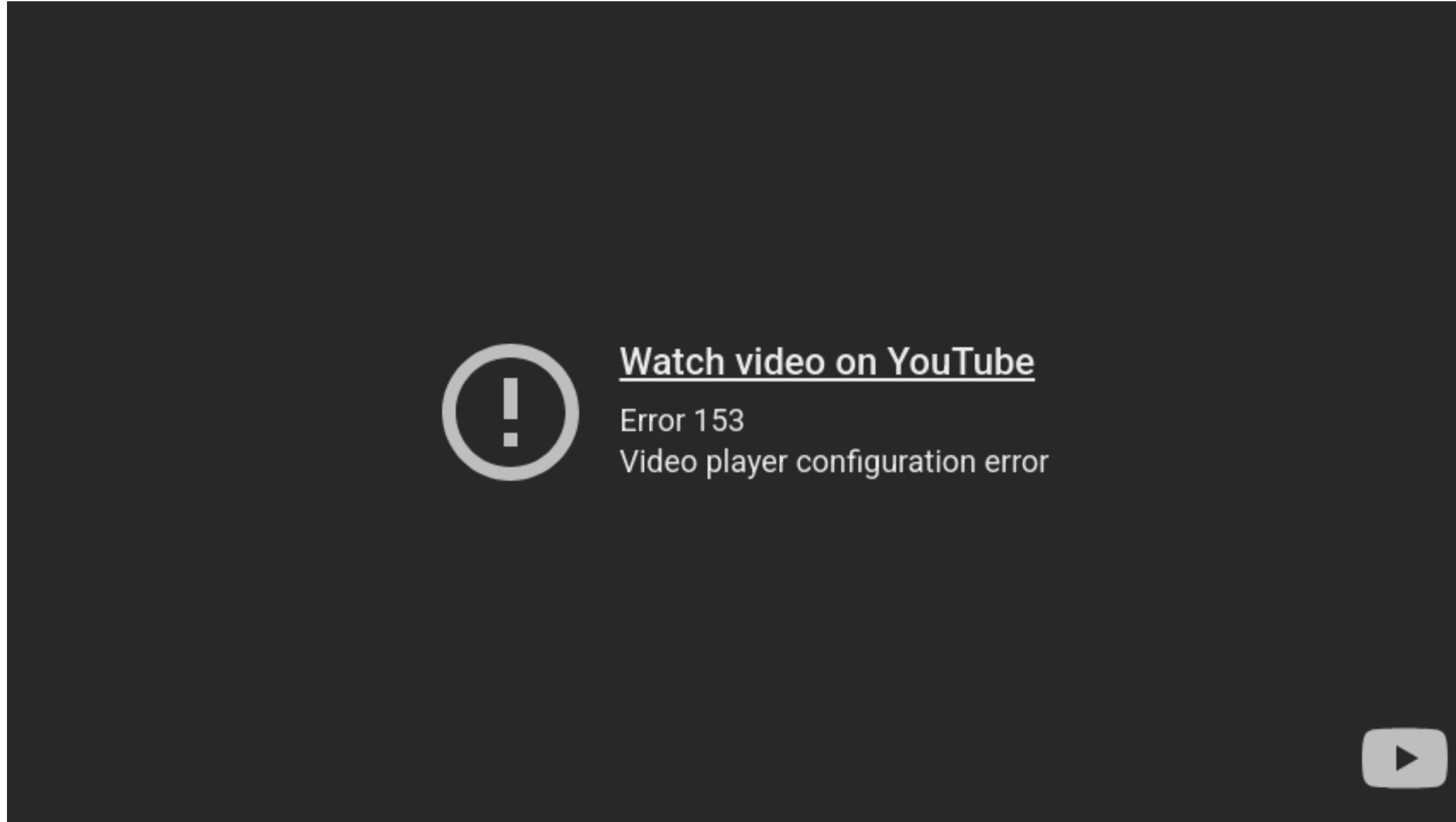


# 업그레이드 예정

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박영준 최주성  
김도현 신준섭  
모지원 조세빈

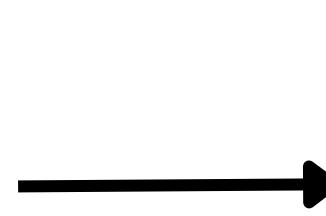
## VLA:Vision Language Action



## VLA:Vision Language Action



이미지 전달



이미지 기반 이해

# 신규 아키텍처

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# 감사합니다.

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박영준 최주성  
김도현 신준섭  
모지원 조세빈