

# 歯車車輪式平面リニアモータシステムの開発

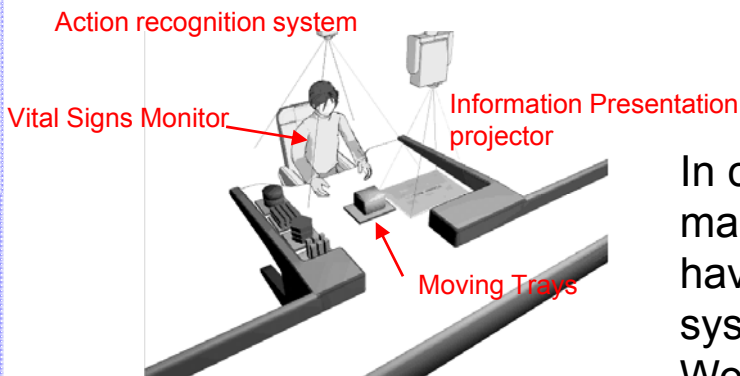
## Development of Gear Wheel type of Planar Linear Motor System

修士課程 吉田敬亮

### OBJECTIVES

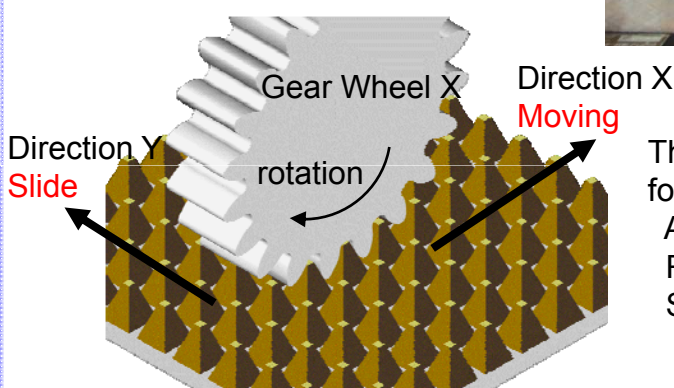
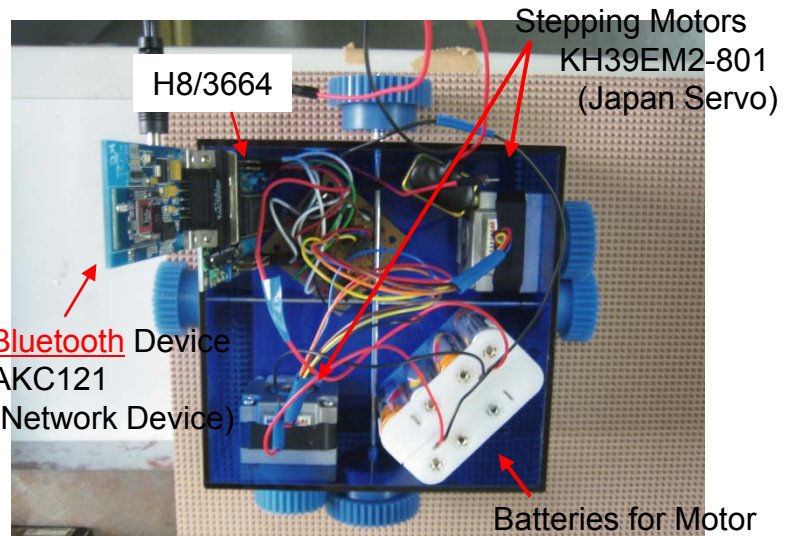
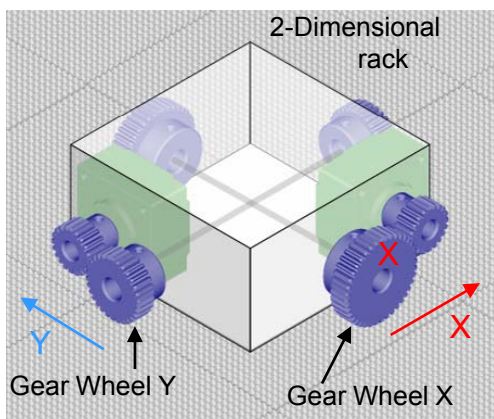
作業者を支援するワークベンチシステム(AWB)における平面リニアモータとして、歯車車輪式平面リニアモータを開発する。このシステムは無線化可能で、平面をオープンループで移動できる。

### AWB (Attentive Work Bench)



In cell production system, machinery support workers. We have advocated workers support system, called "AWB (Attentive Work Bench)

### Development of Transfer Mechanism with Gear Wheel



This mechanism has such performance as follows;

Absolute accuracy : about 40  $\mu\text{m}$   
Repeat accuracy : about 18  $\mu\text{m}$   
Speed : about 380 mm/s