

nomagic just AI

Robotic manipulation
powered by AI
for agile warehouses
and stores





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Bottom Left



Controlling the manipulator

- We use ROS and UR10
- Mostly linear movements (joint space, Cartesian space)
- But also MoveIt! planned movements.
 - We tried: https://github.com/ThomasTimm/ur_modern_driver.
 - Following a trajectory requires 125Hz communication via TCP
 - **Problem:** things go wrong when packages are lost or delayed

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Our contribution

- New open source driver for UR:
https://github.com/NoMagicAi/ur_driver
by Jarek Potiuk, Filip Grzqdkowski and Konrad Banachowicz
- Coarse positions (20-40 points) are sent to the UR controller
- The interpolated steps traversed at the 125Hz rate are computed directly on the UR controller
- **Result:** smooth movement, even over wifi.

**Obviously,
we are hiring.**



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