robotics

empowering lives with connected machines

rapyuta.io

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Company Overview



Team





Total funding: USD `40M+

monoful YASKAWA SB Investment SONY

Awards



- Description
- ETH Zurich Spinoff **Spin**off **ETH**zürich
- Multinational team: 100+ members, 16 nationalities, across Tokyo, Japan and Bangalore, India
- Well balanced (Mechanical, Electrical, Computer Science, Artificial Intelligence) team for building holistic solutions

Major Challenges in Robotics Solution Development



Develop

- Highly fragmented
- Cross domain expertise dependency
- Delay in time to market Rapyuta Robotics

Operate

• Lack of flexibility to adapt customer requirements

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 Lack of tools for remote debug to minimize downtime

Scale

- Difficult due to nonscalable infrastructure
- Usually constrained to limited type of robots

Solution: rapyuta.io ecosystem



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rapyuta.io platform

rapyuta.io: agility and scale to your applications!





CASE: Applying rapyuta.io to warehouse management



6

Use Case : solutions developed with rapyuta.io



Pick-Assist AMR for Warehousing



TRAN'SPORT! COMMUNICATION SAGAWA

AMR Solution

- 1. Minimal upfront costs Comparison: Goods-to-Person (ex: Kiva Systems)
- 2. Flexible solution
- 3. Easy to operate



AI Forklift

Autonomous Forklift

- 1. Multi-robot coordination of 3 forklifts
- 2. Integration with mobile racks, vertical conveyors



Arm x AGV Solution





Multi-type robot coordination

- 1. Integration of AGV x robot arm in 3 months
- 2. No vendor lock-in
- 3. Interchangeable hardware



io_infra: the core features of rapyuta.io

Simple yet powerful tools for remote management of your robots



Metrics: visualise key metrics from anywhere

rapyuta.io allows you to subscribe to important topics on your device and visualise them in a digestible format.

The native UI is simple and easy-to-understand.



For more customisation, metrics can easily be integrated with tools like Grafana giving the user an exhaustive list of customisations.



Remote SSH: a powerful tool for debugging

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- With the remote SSH feature, the onboarded devices can be effectively managed from anywhere.
- > Our patented Secure Shell allows for swift and efficient debugging.

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Logs: peering back in time has never been simpler

Developers can pin point to any event with rapyuta.io's timestamped logs.

Detailed historical and live logs of devices, builds and deployments can be accessed in a few simple clicks.

Details Historical Logs Si	nell Access History
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Type all stderr stdout	24-01-2021 12:53:34.374502 +05:30 Flask_Application flask_runner * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
Source ✓ ✓ Flask_Application ✓ flask_runner	

ROS BAGS: efficient root cause analysis and optimisation

ROS bags on rapyuta.io is a powerful tool allow record and download the bag files from your deployments.



User can use these files to play back the data as it did in the original run. This allows for effective re-creation and tracing of any event that might have occured in the original run.

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rapyuta.io - recap



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Our mission

