GRIPS Inc.

- Grassroots Innovation Platform and Services -

Company Introduction

GRIPS Yasushi Morita / President&Founder

Initial Release Sep. 25, 2024



1. Company Info

Company Name: GRIPS Inc.

President & Founder: Yasushi Morita

Location: Ushiro-Hirai 170-421, Nagareyama, Chiba, Japan / Hqs.

Kashiwanoha 5-4-6-612, Kashiwa, Chiba, Japan ? R&D Lab.

TEL: 070-5558-0584

Web site: https://grips.co.jp/

Facebook: https://www.facebook.com/GRIPSinc/

Established: Jun. 3rd, 2019

Customers: Toyota, Denso, AISIN, Mitsubishi Gas Chemistry, NEC, Dentsu, SONY, PEVE, PPES, RESONAC, Shimadzu, Murata, Mikuni, Tanaka Precious Metals, etc.



1. Company Info.

GRIPS

History:

- Jun. 2019, Established
- Jan. 2020, Granted as an official distributor of DOBOT
- Jun. 2020, Capital Increase
- Jul. 2021, Focus Stacking Microscope release
- Sep. 2021, Granted as an official Sler of JAKA
- Aug. 2022, Open the R&D lab. in Kashiwa
- Jul. 2023, Advanced Digital Technology implementation Project for Chiba Pref.
- Nov. 2023, Elected as the finalist in Chiba business contest 2023
- Feb. 2024, Patent application related to Focus stacking technology
- May. 2024, Participated in the ICRA2024 competition











2. What we do

Business Domain:

- Open innovation support for manufacturor
 Small size process automation with coots and Python
- 2. STEM Education contents development and workshop Edtech business based on i-STEM concept
- 3. General robotic controller development based on ROS2 Just started!
- New market exploration
 Laboratory DX, Remote control, Digital twin,
 Medical and Bio tech, Consumer market area





2. What we do / Recent projects

Recent project (1)

- Auto pipetting system with OT-2 and XArm Lite6
- Controlled by a ROS2 based controller.



https://prtimes.jp/main/html/rd/p/00000020.000057289.html



2. What we do / Products





























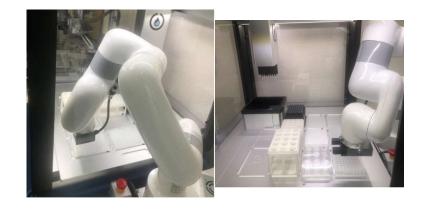


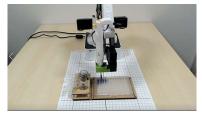




3. Open Innovation Support

Advanced R&D Project for Chiba Pref.







Autonomous pipetting system development with Auto pipetter "pipettyPRO" and DobotMagician

Controlled by Python program on a general PC



Autonomous pipetting system development with "OT-2" and "xArm Lite6" controlled by a general control software platform based on ROS2. The platform is to be a future product called "ROSSetter"







4. EdTech activty

Education Contents development

- Developed with Toyota Kamigo/Shimoyama plant
- TCP/IP communication for future remote control
- Programming with Python



目次

- 1. MG400ハードウェアセットアップ
- 2. DobotStudioProセットアップ
- 3.マニュアル操作
- 4. Blocklyプログラミング
- 5. スクリプトプログラミング
- 6. リモート制御
- 7. (参考) ティーチング



Copyright: 2023 GRIPS Inc. All Rights Reserved.

6. リモート制御

6.2 リモート制御 / TCP/IP

ここからは、プログラミング言語の一つであるPythonを使用しMG400を制御する方法を紹介します。PythonコードからTCP/IPソケット通信を用いて制御バラメータを送信します。

この資料ではMG400の制御が目的なので、ソケット通信自体の詳しい説明は割愛します。 Pythonコードからソケット通信で、簡単に制御を行う方法について概説します。



opyright 2023 GRIPS Inc. All Rights Reserved.



Confidential

5. In-house Projects

- ROS2 based general controller "ROSSetter" development
- Continuation of pipetting technology development (MG400 / 6DoF)
- Z-SCAN family enhancement, Photogrammetry technology
- Dental solution with 3Dデータ and scanner/printer
- Avator robot project, remote control
- New technology of security
- Collaboration with traditional craftsmanship



Thank you!

GRIPS Inc.

Yasushi Morita



Ushiro-Hirai 170-421, Nagareyama, Chiba, Japan / Hqs.

Kashiwanoha 5-4-6-612, Kashiwa, Chiba, Japan? R&D Lab.

Website: https://grips.co.jp/

facebook: https://www.facebook.com/GRIPSinc/

info@grips.co.jp



GRIPSは日本STEM教育学会の賛助会員です。 会員番号:320201102 https://www.j-stem.jp/



CR Collaborative Robot Series

The safest flexible cobots in the world for industrial use



GRIPS



https://www.eduport.mext.go.jp/platform-member/

