POLYTECH
DIJON

Multi-User FANUC M-10iA / R-30iA Mate Conventions

Reserve data space in the FANUC for others to not interfere

Registers

Index range	User name	Expiration
1-9	HOME & TESTS	/

Position Registers

Index range	User name	Expiration

String Registers

Index range	User name	Expiration

I/O

SO Index range	User name	Expiration

Payloads & Frames

Simply place your initials at the beginning
- ▶ LD TOWER
- ▶ UH CONVEYOR

Sharing Conventions

Comment the top of your programs : // Author : LASTNAME Firstname
Put your initials in the beginning of all programs (TP & KAREL)
Often backup your programs

Sheet informations

Made by : *DAVID Lucas*
Blank sheet (pdf and LaTeX source available here) :
lucas-david-ry.com/publicAssets/Polytech/sharedFANUC_guidelines

FANUC Additional Drivers

- ▶ MAPPDK from github.com/LucasDaRY/FANUC_Spline
  - Interface to move and interact the robot
  - Adaptation for Spline movements and R-30iA of fanucpy/MAPPDK [1]
  - Port 18735

Bibliography

[1] Agajan Torayev, Giovanna Martínez-Arellano, Jack C Chaplin, David Sanderson, and Svetan Ratchev. Towards modular and plug-and-produce manufacturing apps. *Procedia CIRP*, 107:1257–1262, 2022.