Training Day 2

Date: Wednesday, 4. (German) *or* 11. (English) September 2024

Aim of the day: TAM API und Tama

Instructors: Christian Marrocco, Nicola Steffen, Yannik Zemp, Filippo Marinho

Participants (8): ...

Material:

- Motors, drives, and power supplies from Triamec

Preparation:

- The participants bring their own laptops
- Current TAM Software installed
- One of those:
    - Visual Studio 2017 Express – free
        - Install the .NET Framework 4.8 Developer pack
    - Visual Studio 2019 or 2022 – free for open source projects and small organizations
        - Select the .NET desktop development workload
        - Add the optional .NET Framework 4.8 development tools

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MORNING

Start: 08:30

Aim: Get to know the basics of the TAM API and IDE.

Introduction to Tama ~1h

- What is a Tama program?
- Creating a Tama program
- Use of registers and Application Parameters/Variables
- Run and test Tama programs
- Debug Tama programs

Interactive exercise ~1h

- Implementation of a simple sequence control

COFFEE BREAK

10min

TAM API Introduction ~30min

- Use cases
- Development environment

Example of different use cases ~45min

- Triamec GitHub and how to use it
- Use of simulation
- Perform measurements
- Perform move sequences
- Streaming of reference positions from PC to drive
- Automate manual processes

Lunch 12:15

AFTERNOON

Start: 13:30

Aim: Being able to create simple Tama programs

Continuation of interactive exercise ~30min

- Implementation of a simple sequence control

Tama demonstration ~45min

- Tables
- Cogging Compensation
- Axis Compensation
- Questions

Conclusion of the programming part ~15min

- Summary
- Questions
- Wishes and needs for consolidation

COFFEE BREAK

10min

Time at disposal for miscellaneous topics ~1.5h

- Questions
- Consolidation of topics according to participant requests

Conclsion of training ~15min

- Summary
- Outlook

End: ~ 16:30-17:00