

Kuartis - Part-time Homework

Overview/Purpose

This task will be used to analyze your approach to a problem.

Task:

Write a ROS node in your preferred language (C++/Python) that satisfies following requirements.

- Takes messages from serial (UART) in format given in **Details** section.
- Parses and publishes messages to related topics.
- Parsed_messages' types (ROS msg type) will be custom and it will be created by you.

Things to be submitted:

- ROS package you developed.
- A summary of your approach (Things you have done, the way you validated your node etc.)

Details

Message Format:

- `$$Field_name,param_1,param_2,...,param_n**`
- There will be three types of fields, which are
 - "K_Personel" with parameters name(String), age(integer), weight(float) and height(integer)
 - "K_Asset" with parameters asset_id(integer) and location ("HW" or "HQ")
 - "K_Update" with no parameters.

Constraints

- Here topic and msg names will be choosen corresponding to field names (Exact names are up to you).
- Order of messages is not known and it is streamed continuously.

Example stream

```
$$K_Personel,0guz,24,74.1,165**$$K_Personel,Mahmut,99,50,170**$$K_Update**$$K_Asset,69,HW**
```