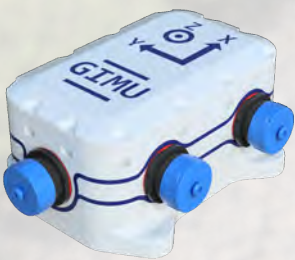


PROTOPAJA 2023 PROJECT IDEA

Sensor calibration platform

In this project students will design a computer-controlled 3-DOF kinematic platform for calibrating IMU, LiDAR and camera sensors. GIM will provide guidance through the project, and there is a possibility to use industry-standard hardware and software or design your own.



Specifications:

- 3 degrees of freedom
- Computer interface for commands and feedback
- Absolute position feedback during movement
- ± 45 degrees per axis (roll, pitch yaw)
- Minimum 5 kg payload
- Good dynamic performance, low jitter and backlash



Tips:

- ROS interface?
- Possible use of hardware and software common 3D printers



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