

SPATIAL CAPTURE · ROBOTICS · EMBEDDED SYSTEMS

Turn a difficult field or sensor problem into a testable next step.

Numeriworks helps industrial and robotics teams scope 3D capture work, diagnose multi-sensor integration, and build the electronics and software needed to get reliable data out of the field.

Sensor integration diagnostic

For: robotics, UAV, and equipment teams dealing with unreliable camera, LiDAR, IMU, GNSS, or ROS 2 data.

We investigate: timing and clock drift, calibration, data lineage, embedded interfaces, and field failure modes.

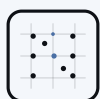
Decision artifact: a ranked fault map, measurable acceptance tests, and a bounded repair or development scope.

3D capture feasibility pilot

For: asset owners and engineering teams that need a defensible model, measurement, or change record.

We define: the decision, required outputs and accuracy, site access, control or checkpoints, and the right capture method.

Decision artifact: a scoped pilot with deliverables, limitations, and a practical validation plan.



Custom visual-inertial-LiDAR-GNSS capture rigs

We develop a capture rig for your application around our own timing core: synchronized sensors, embedded firmware, calibration, and ROS 2 software, delivered as a project.

A PRACTICAL FIRST CONVERSATION

1 · Decision

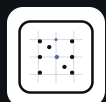
What must the scan or robot data let your team decide?

2 · Bottleneck

Where does the current workflow fail, and what does that cost?

3 · Evidence

What accuracy, coverage, timing, or reliability would make a pilot useful?



Bring us the difficult use case.

We will suggest a focused diagnostic, capture pilot, or custom rig project.

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