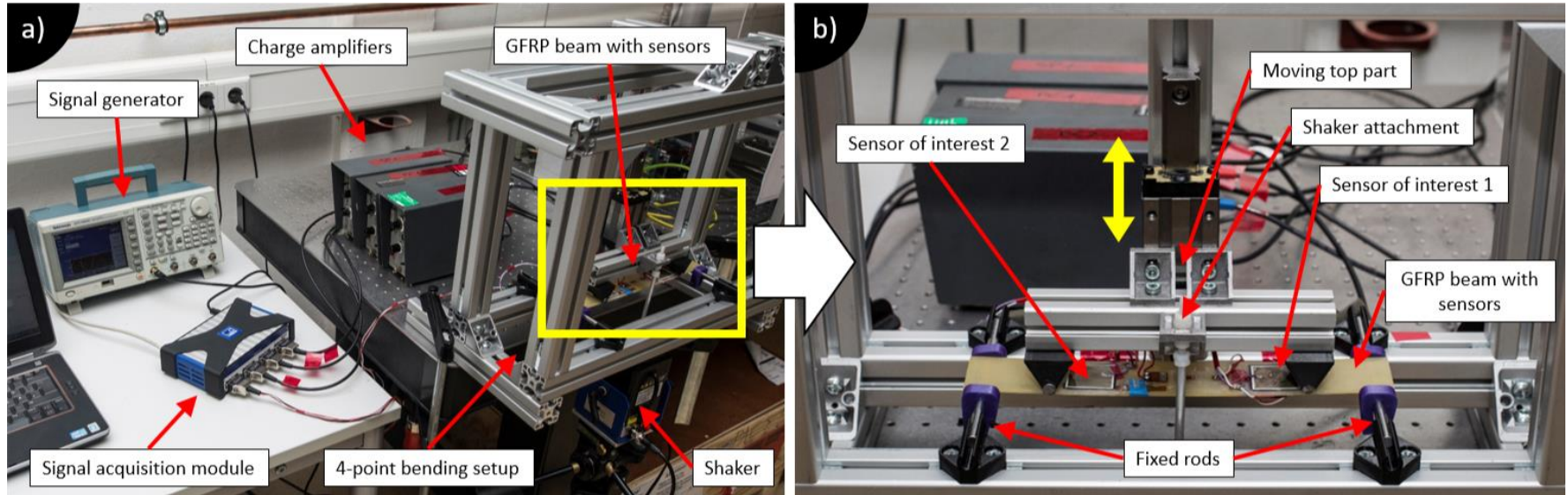


Improvement of piezoelectric characterization setup

✓ Bachelor- / Studien- / Masterarbeit



3D printed piezoelectric composites are characterized by measuring their piezoelectric coefficient d_{31} . The measuring procedure shown above must be developed further. Sensors are glued on thin GFRP beam and are loaded with 4-point bending. Input and output data is measured and evaluated with Matlab. The reliability of this measuring method must be proven experimentally with different sensors, i.e. different sensor adhesion techniques and placements on the GFRP beam.

If you want to learn about sensor applications, vibrations, piezoelectric sensors, their manufacturing, signal processing and future possibilities of this technology, contact me

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