

Supplementary Reading: Multisensor Fusion for State Estimation

To learn more about Multisensor fusion, check out the resources below:

- Read Sections 5.1-5.4 and Section 6.1 of a technical report by [Joan Solà, Quaternion kinematics for the error-state Kalman filter, 2017](#) (available for free). Note that this is an advanced reading.
- Read a [research paper](#) by Jay Farrell and Paul Roysdon that provides a tutorial for autonomous driving state estimation.
- Read a [Medium article](#) about sensor fusion algorithms for autonomous driving (Kalman filters and extended Kalman filters).
- Review an [article](#) from MIT Technology Review that explains the need for sensor fusion to enable robust autonomous driving.

Lesson 3 Supplementary Reading: Sensor Calibration - A Necessary Evil

For more information on sensor calibration, check out the resources below:

- Read an [interesting article](#) on why sensor calibration is necessary.
- Read a [blog post](#) from Almotive about the need for sensor spatial calibration and temporal synchronization.
- Explore the [cloud-based calibration](#) service for self-driving cars provided by Baidu's Apollo initiative.