



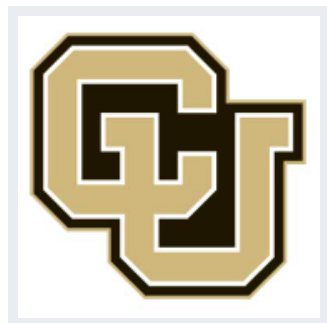
4 Courses

**Kalman Filter Boot Camp
(and State Estimation)**

**Linear Kalman Filter Deep
Dive (and Target Tracking)**

**Nonlinear Kalman Filters
(and Parameter Estimation)**

**Particle Filters (and
Navigation)**



Dec 30, 2025

CHARLES ARTHUR RAMBO

has successfully completed the online, non-credit Specialization

Applied Kalman Filtering

To earn this certificate, participants must score 80% or higher on all graded quizzes. The specialization teaches participants how to design and implement Kalman filters for state estimation, target tracking, parameter estimation, and navigation applications. Participants learn how to derive linear Kalman filters, nonlinear (extended, sigma-point, unscented, and cubature) Kalman filters, and particle filters, and implement them in Octave code. A focus is placed on understanding how to modify the standard algorithm steps for applications that might not meet the standard assumptions and on how to implement robust solutions.

Dr. Gregory L. Plett
Professor, Department
of Electrical and
Computer Engineering
University of Colorado
Colorado Springs

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

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