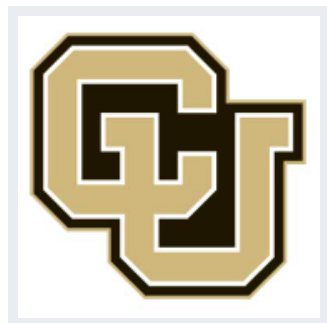**4 Courses**

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

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