Local industry partners like Woodward, Inc. and Lockheed Martin Corporation, are in need of multi-skilled students who are capable of developing next generation aerospace actuation systems.

Students completing this course will be able to:

- Classify the architectural frameworks applicable to mechanical, hydraulic, and electric actuation systems
- Create an effective architecture and control design to meet safety, performance, and reliability challenges of aerospace actuation systems
- Use virtual multi-disciplinary modeling artifacts for testing of aerospace actuation systems

Topics covered in this course:

- Needs and constraints for actuation in aerospace
- Power and signal architecting
- Critical analysis of in-service architectural designs
- Best practices in system-level modeling and simulation

Development of Aerospace Actuation Systems

Fall 2021 | SYSE580A3
5:15 - 8:00 p.m. Wednesday
Dr. Kamran Eftekhar Shahroudi

Course prerequisites: ECE 331 or ECE341 or ECE342 OR MECH 307 or MECH 324 or MECH 325 or equivalent.

Dr. Kamran Eftekhar Shahroudi has been working with Woodward, Inc. for 25 years. His current role is Technical Fellow: Aerospace Actuation Systems Engineering; Model-Based Systems Thinking and Engineering.

A systematic, modern approach to aerospace actuation systems.

Interested in a future career in aerospace?

Questions?

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Faculty page: www.engr.colostate.edu/se/kamran-shahroudi/

We recommend registering for Fall 2021 classes by August 16.