SANTA CLARA UNIVERSITY

Department of Mechanical Engineering

Mechanical Engineering Seminar Series

Aerion AS2 Supersonic Business Jet: Design and Engineering Overview

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Date: Wednesday, January 25, 2017
Time: 4:00 – 5:00 pm
Location: Bannan Engineering, EC 326

Abstract

The Aerion Corporation is developing the AS2, a revolutionary supersonic business jet that pushes the frontiers of current engineering to provide the fastest mode of civilian transportation available. The AS2 utilizes natural laminar flow, thin wing technology to cruise at Mach 1.4, almost 50% faster than the current fastest civilian aircraft. An overview of the engineering and design will be presented, focusing on computational methods and design optimization software developed by Aerion for use on the AS2.

Biography

Alex Egeler is an aerospace engineer at Aerion, located in Palo Alto, CA. He has been at Aerion for 3.5 years, focusing on software design and supersonic inlet aerodynamic shape optimization. Prior to his time at Aerion, he worked at Northrop Grumman on underwater missile launching systems and interceptor missile systems. He has a B.S. in mechanical engineering from Johns Hopkins University, and an M.S. in Aeronautical and Astronautical Engineering from Stanford.

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