Redesign of the LCTR2 (Large Civil Tiltrotor) Outreach Model

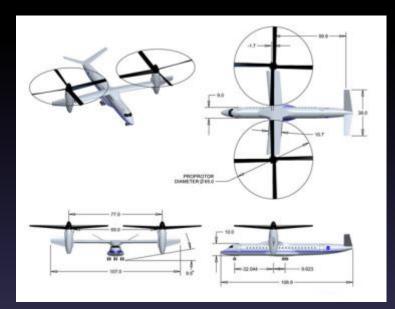
Michaela Sorrentino, University of Portland

Summer 2018 Aeromechanics Intern,

NASA Ames Research Center

Background

- Conceptual design: aircraft with vertical takeoff and landing (VTOL) capabilities
- Carries 90 passengers (1000 nautical miles at 300 knots)
- Reduces length of time aircraft has to be on runway



NASA Ames Rotorcraft Aeromechanics website, 2018

LCTR2 Outreach Model

- 2012: 1/20th scale model
 tested in the 7- by 10-foot
 wind tunnel at Ames
- 1/144th scale model created for exhibit at Hiller Aviation Museum in San Carlos, CA

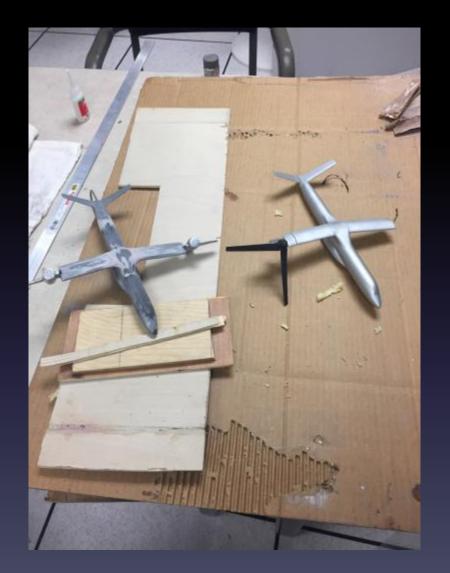


NASA Ames Rotorcraft Aeromechanics website, 2018

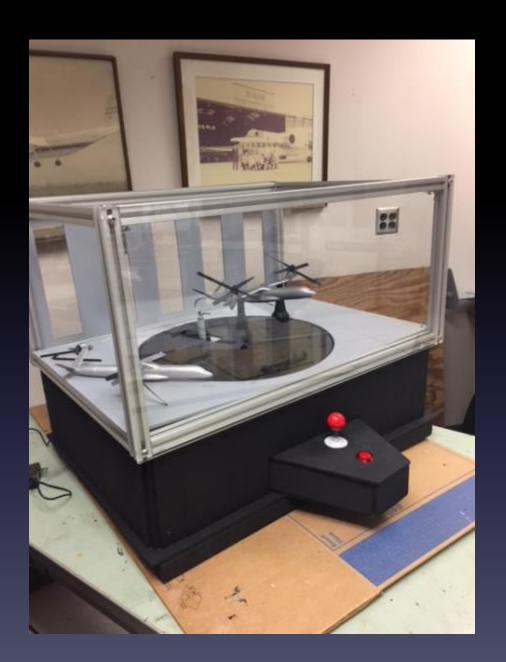
Personal Journey













Additional Projects

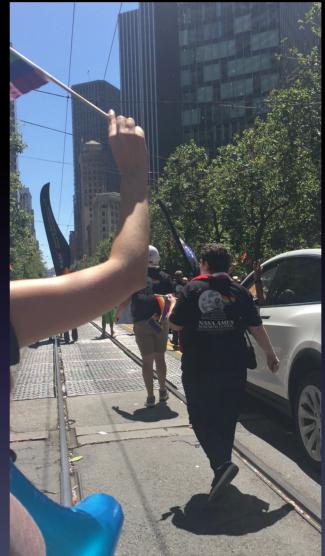
Boeing's GoFly challenge

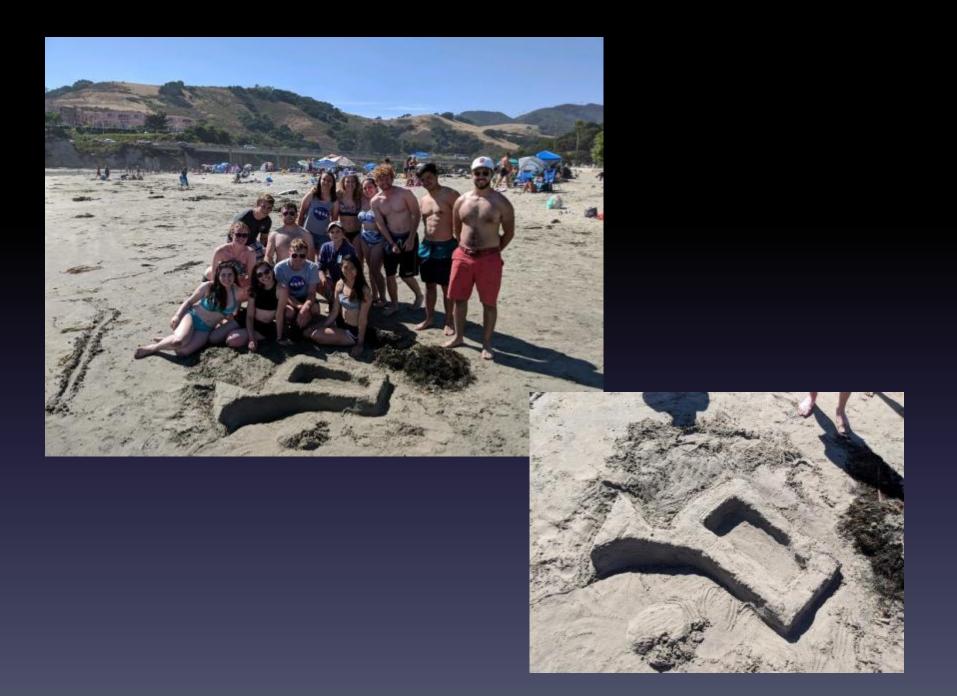


Intern Adventures











Thank you for your time!!