

# Senior Design Finalist



*Back (L to R): Dustin Hsu, Andrew Frazelle, Daniel Forrest  
Front (L to R): Dr. Shabbir Ahmed, Megan Sweeney, Leanne Measroch,  
Christopher Taylor*

**Project Title:** Material Flow & Deployment for Next Generation Product Family Engines

**Student Team:** Daniel Forrest, Andrew Frazelle, Dustin Hsu, Leanne Measroch, Megan Sweeney, Christopher Taylor

**Faculty Advisor:** Dr. Shabbir Ahmed

**Project Summary:** Pratt & Whitney, a world leader in aircraft engine manufacturing, requested help optimizing transportation decisions to support assembly of Next Generation Product Family engines. The team delivered an optimization model with a customizable interface capable of providing recommendations under varying operational conditions. The solution represents annual transportation savings of approximately 21%.

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