

ENERGY SAVINGS FOR UAV FLIGHT IN UNSTEADY GUSTING  
CONDITIONS  
THROUGH TRAJECTORY OPTIMIZATION

BY  
LOU GRIMAUD

Submitted in partial fulfillment of the  
requirements for the degree of  
Master of Science in Mechanical, Materials, and Aerospace Engineering  
in the Graduate College of the  
Illinois Institute of Technology

Approved   
Advisor

Chicago, Illinois  
July 2014