

APPRECIATION

This thesis would not have been possible if it were not for my classmates who bore the same burden of preparing such a massive amount of work. Learning how to deal with stress through humor, respect, and teamwork is the true lesson learned through this project.

Unending thanks to;

Dr. Richard Mistrick, for his guidance

Dr. Martin Moeck, for his perspective

Kathryn Trail, for her collaboration

Thanks to my roommates David Peterson and Jackson Burnham for making the thesis lab feel like a home away from home. Thanks to Ashley Byrne, James Chester, and Geoffrey Measel for their assistance in my structural breadth work. Thanks to Samuel Snyder, Adam Sontag, and Joseph Firrantello for making sure Mumma's controls class didn't bury me alive. Thanks to Steven Neimeister for always having an excellent story about "last night."

Thanks to all of the AE faculty and staff for taking great pride in ensuring that our years with the AE department were as fulfilling as possible.

Thanks to Randall Olson and Steven Hugo at HOLT, Joseph Straub at M/E Engineering, Jamie Diamond at Ryan-Biggs, and Fred Vanderburgh at Ithaca College for their help in my analysis of the building.

Thanks to my parents who taught me how to eat my life without choking.

Finally, thanks to my beautiful fiancée, Emily Tucker, who will continue to love me regardless of my grade in AE482.