

# MIE 673 - Homework 1

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## Abstract

Your abstract.

## 1 Hacking Skills

- (a) From the command, we learned the following about it's compilation:
  - Precision: single
  - Date: Jan 28 2026
  - Time: 21:04:40
- (b) The *describe* command gives us a readable based on the git reference for the current commit which is *v4.2.0-1-ge31979f*. /
- (c)
- (d) The variable BldNodes is different between 5 MW and 10 MW wind turbine models, 17 versus 50 nodes. This makes sense as to understand the structural dynamics of the wind turbine blades, forces and displacements are calculated for a set of discrete nodes along each blade. With longer blades, to achieve similar structural and aerodynamic modeling accuracy, more blade nodes are used.
- (e) Plotting worked, I can see chord length as a function of span!

## 2 Scaling and Power

INCOMPLETE, due to poor time management this section will be completed after the deadline.