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Name:

## **Final Project Abstract**

### **Due 31 March 2016**

Choose any real life object which undergoes cyclic loading (could be a car part, pen clip, aircraft wing, any object). In 1-2 pages, give a brief overview of how this project will sufficiently satisfy the requirements for the final project. Projects will be graded on the following rubric

- Project abstract - 5% (due 31 March 2016)
- Stress intensity factor analysis - 10%
- Residual strength analysis - 10%
- Fatigue crack growth analysis - 10%
- Fatigue crack propagation analysis - 10%
- Inspection cycle analysis - 10%
- Damage tolerant improvement - 20%
- General presentation, organization, and grammar - 25%

The purpose of this abstract is to get you thinking about your final project before it is too late, and to ensure that you do not spend effort on a project which does not have features needed to satisfy this. Take some time to think about your chosen object, some of the basic assumptions you will need to make, and if you will be able to demonstrate a thorough understanding of course material using it in your final project.