**Workload Balance Document**

*Project 2: Claw*

*Alberto Rota S218991 - Add your personal info here*

**Project**

1. **Strength of Materials**
   1. **Equations of the mechanical problem**

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* 1. **Simplifying Hypothesis**

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* 1. **Stress as a function of the applied load**

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* 1. **High stress gradients**

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* 1. **Discussion**

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1. **Analysis With the Finite Element Method**
   1. **RMBs and Symmetry**

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* 1. **Modelling description**

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* 1. **Singularities and Convergence**

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* 1. **Simulation on coarse meshes**

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* 1. **Most Suitable element**

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* 1. **Advanced meshing**

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* 1. **Maximum admissible load**

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* 1. **Optimization**

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**Report**

1. **Introduction**

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1. **Strength of material**
   1. **General assumptions of our mechanical problem**

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* 1. **General equations of the mechanical problem**

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* 1. **Equilibrium equations**

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* 1. **Compatibility equations**

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* 1. **Constitutive law**

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* 1. **Simplifying hypothesis of our problem**

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* 1. **Support reactions**

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* 1. **Internal forces**

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* 1. **Stresses**

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1. **Analysis with the Finite Element Method**
   1. **Rigid body modes**

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* 1. **Symmetry**

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* 1. **Modeling of the mechanical problem in NX**

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* 1. **Singularities - Convergence**

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* 1. **Global convergence**

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* 1. **Local convergence**

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* 1. **Comparison of different elements**

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* 1. **Types of elements**

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* 1. **Analyse of the geometry**

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* 1. **Spatial distribution (title to be changed)**

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* 1. **Mesh quality**

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* 1. **Sensitivity study**

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* 1. **Number of elements and DOF (title to be changed)**

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* 1. **Choice of the best element**

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* 1. **Finding the maximum load**

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* 1. **Advanced meshing**

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1. **Optimization**

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1. **Conclusion**

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