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**EG1004 Introduction to Engineering & Design**

**Rapid Assembly & Design (RAD)**

**Preliminary Design Investigation**

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(Project Title)

**Team Members:**

1. **Introduction**
   1. Purpose *General mission statement; what do you want your project to do?*
   2. Background Information *A brief overview of primary technology used in the project*
   3. Goals *What do you hope to accomplish by creating this project? What will you gain?*
2. **Resources**
   1. Physical Components *List of vital components and their intended use*
   2. Software Requirements *Languages, IDEs, libraries, etc.*
   3. Cost Estimate *Excel table with columns: description, URL, unit price, quantity for each item*
3. **Procedures**
   1. Physical Construction *General plan of assembly/approach to building the project*
   2. Software Setup *General plan of assembly/approach to coding the project*
   3. Project Schedule *Microsoft Project Gantt chart; resources, progress line, allocation of tasks*
4. **Conclusion**
   1. Challenges *What problems do you expect to run into along the way? How do you plan to solve them?*