

Proposal Form

Name:- Matt Nugent

This form should be submitted with your Year 3 Business Plan and a copy of your Live CV

Overview of the project

Briefly describe the task, the relevance of your industrial partner, the role that you will be able to fulfill and the way that this will enhance your learning.

For my second semester at University The main project I undertook was my final negotiated design task. At the beginning of the year, I said in my year 3 study plan that I wanted to exercise my physics and math's skills. I chose to do this by creating a car inside and out. The math and physics would be used to create and derive an equation to dictate my dimensions based on physical constraints.

Following applying these skills I wanted to put them into practice by using CAD software to create a model which has been designed and tested solely by myself. These tests would be completed in CAD software

I would then render out the final project outcome to an industry standard to be shown off on the main pages of my portfolio.

What key opportunities will this task offer you in the following areas

1. Design Practice

- To learn industry standards in an engineering field.
- Fully consider how physical constraints dictate the design of a project

2. Technology (inc software skills)

- Learn mechanical dedicated software. For example, solid works / Creo
- Learn how designs are translated using software from software to achieve the best outcome

3. Processes (Development Processes, Project Management / Time Management etc)

- To use physics iterate a design process generating optimal design constraints
- Gain a better understanding of the pipeline workflow in industry

4. Critical Analysis (Reflective Processes / research skills)

- review new skills software's and techniques learned during the process and integrate them into my own workflow to improve it.
- Gain an understanding of how research is done in large companies and use their strategies in my own work.

Learning Outcomes

Please indicate how each outcome will be met in relation to the key opportunities that you have described above (Drag the ticks to the appropriate boxes add more if needed)

	1	2	3	4
Design creative products and/or environments that are attractive, easy to use and fit for purpose	yes			
Demonstrate a critical understanding of the principles of user centred / experience design, with the sensibility and ability to select and assess appropriate materials for their designs	yes			
Develop detailed concepts, narratives and engaging content for a variety of platforms highlighting areas of specialism and interest as a method for self-promotion			yes	
Effectively assess and document the process of a project from outline business proposals through specifications, client changes and reviews		yes		
Critically assess and use a range of methods to test the integrity and feasibility of their design, effectively and thoroughly prior to production		yes		yes

Agreed Assessment Submission

Project Outcome

This will include: - A fully functioning vehicle built and rendered In the appropriate software showing clear development of parts and components.

Project Portfolio

This will contain: - this will contain the work I did to fit a specification I gave myself, my solution to this problem and where possible evidence of component testing.

Process Report: adding what I have done to a Gantt chart at the end of every day to document exactly what I have learned

Read through what I have done and learned and analyze the weight of the things I have learned and the integration of it into my usual workflow.

Signed & Agreed by :-

Placement Representative _____

Supervising Tutor _____

Student _____ **Matt Nugent** _____