Project Initiation Document

**KV6003– Individual Project**

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| Student Name | **Grant Allenby** | **Other names** | **Grant** |

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| **Project Supervisor: Paul Vickers** |
| **Aim of project:**  Investigate the use of auditory display techniques to assist in the real-time monitoring of computer networks and develop software to aid this. |
| **Rationale for project:**  The main rationale for this project is that multitasking system monitoring is an incredibly useful skill, and by using sonification for process monitoring, users such as system administrators can use this to monitor their networks in real time to identify threats and changes.  The main reason this is interesting is that there are many GUIs and applications for real time process monitoring, but fewer audio based systems, which would be greatly beneficial when utilised correctly, as it would allow for system administrators to focus their eyes on one system, while listening to another, increasing work efficiency. |
| **The main challenge is:**  The main challenge would be designing a system that utilises sonification, as well as utilising real time data for this task. |
| **Type of product to be produced or investigative work to be undertaken:**  The product to be produced would likely be an audio system that alerted the user whenever exceptional events took place within a network. This would also be alongside investigative work that highlights how the system works, and what methods will be used within. |
| **Resources required:**  Resources are dependent on the programming language that will be used; These are examples of resources that may be required:  SoniPy (Python based)  Sonification Sandbox (Java based)  xSonify (Java based)  SoNSTAR - a real-time sonification system |
| **Any external body involved ? If so, who ?** |
| **Signatures :**  **Student : Supervisor : P. Vickers** |