

**PGR Annual Monitoring Record**

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| **Student Name** | **Imanuel Greenfeld** | | | | | | | | | | |
| **Student ID** | G | R | E | 1 | 4 | 5 | 6 | 9 | 6 | 9 | 5 |
| **College** | College of Science | | | | | | | | | | |
| **School** | Computer Science | | | | | | | | | | |
| **Enrolment Date** | 08/04/2016 | | | | | | | | | | |
| **Student Status** | Home | | | | | | | | | | |
| **Mode of Study** | Part time | | | | | | | | | | |

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| **To be completed by student** | | | | | |
| **Programme** | MPhil | | | |  |
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| **Proposed title of research project** | Simulation of multiple agents for games on the GPU | | | | |
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| **Statement on progress made in research since last formal review and future plan of work** | Reporting since the recent Confirmation of Studies.  A variety of technical work has been completed, including:   * Got Assimp to work successfully. * Understand differences between OpenGL, GLEW and SDL. * Rendering multiple viewpoints * Increased understanding of vertex shader and fragment vertex. * Screen shots and detailed communication on Git Hub. * Rotation within viewports using OpenGL, glm::translate, glm::rotate but only for triangle, making progress for rectangle.   Next steps (short term) include:   * integrate AssImp into the recent code base, to render the models of the Ant sites * render those models from multiple viewports * add profiling to the project to determine performance characteristics * write up a report on those performance characteristics * optimize performance | | | | |
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| **I have attached my TNA** |  | Yes |  | No | |
| **Has ethics changed?** |  | Yes  Date the new ethics was approved  Click here to enter a date. |  | No | |
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| **Do you intend to submit in the next 12 months and have you applied for Thesis Pending** |  | Yes |  | No | |
| ***Please note: - eligibility criteria applies, please see the University General Regulations – Part H4.*** | | | | | |

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| **Signature** | **Imanuel Greenfeld** | **Date** | 08/02/2017 |
| **Student Name** | Click here to enter text. | | |

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| **To be completed by Director of Studies and supervisor/s** | | |
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| **Latest permitted transfer or completion date** | 09/02/2017 | |
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| **Number of progress meetings the student has attend this academic year** | | 12 |
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| **Please comment on progress and any action to be taken** | Imanuel has learned a lot this year (part-time) and is now up to speed both theoretically and practically with various Games And Graphics techniques.  He has looked well into various research papers and is critiquing and discussing them increasingly well.  He has implemented the first part of a renderer for multi-view point rendering for a practical tool connected to a wider research project – useful both as a learning exercise and for that project. | |
| **Is the student on track to complete on time** | Yes | |
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| **Have there been any significant changes in the nature of the research or have any new ethical dimensions arisen since the last formal ethical approval?** | Click here to enter text.  No. Ethics is already approved for the wider PhD project. The specific present project (multi viewpoint rendering for ant eyes) already has ethics approved through Mike Mangan’s project. | |

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| **Statement by the supervisory Team on progress made by the student both in research and professional skills acquisition** | | | Imanuel’s progress both in research and professional skills acquisition during this period has been entirely satisfactory, in my (Shearer) opinion. | | | | | |
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| **Director of Studies signature** | | |  | | | **Date** | 09/02/2017 | |
| **Director of Studies name** | | John Shearer | | | | | | |
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| **Second Supervisor signature** |  | | | | | **Date** | Click here to enter a date. | |
| **Second Supervisor name** | | Click here to enter text. | | | | | | |
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| **Third Supervisor signature**  **(if applicable)** |  | | | | | **Date** | Click here to enter a date. | |
| **Third Supervisor name**  **(if applicable)** | | Click here to enter text. | | | | | | |
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| **To be completed by Progress Panel** | | | | | | | | |
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| **Panel recommendation** | |  | | Yes, progress | | | | |
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|  | | Yes, progress with actions | | | | |
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|  | | No, refer to CRDB | | | | |
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| **Action plan to be submitted within a maximum of three months** | | | Actions: | | | | | |
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| Click here to enter text. | | | | | |
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| **Chair of Progress Panel**  **Signature** | |  | | | Date | | | Click here to enter a date. |
| **Name of Chair of Progress Panel** | | Click here to enter text. | | | | | | |
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| **To be completed by CRDB** | | | | |
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| **CRDB Decision** |  | Yes, progress | | |
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|  | No with actions | | |
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|  | No, withdraw due to academic failure | | |
| **Agreed actions** | Click here to enter text. | | | |
| **Date to be completed by** | Click here to enter a date. | | | |
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| **Chair of CRDB**  **Signature** |  | | Date | Click here to enter a date. |
| **Name of Chair of CRDB** | Click here to enter text. | | | |
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