Department of Computing and Mathematics
Computing and Digital Technology Undergraduate Degree Scheme
Student Project Proposal Form

Student name:	Seirra Blake
I.D.:	19096347
Degree title:	Computer science (BSc)
Proposed project title:	UIs with gyroscopic controls
Proposed supervisor:	Huw Lloyd
External collaborator (optional):	

Project description:

The aim of the project is to create a prototype that illustrates how an ergonomic, gyroscopic gamepad or controller could be used to enhance the usability of a personal computer, the suggestion is art software as most people are already acquainted with drawing using a mouse and keyboard and there is an easy to evaluate use case for gyroscopic control. The prototype could be made using the java programming language and may be easier with the following tools/libraries:

- Processing (facilitates multimedia experiences)
- A libsdl binding such as jsdl/libjavasdl/sdl2gdx (cross-platform mapping)

Consider also testing how a chatpad peripheral could compare to typing on a regular keyboard.

Required resources:

- Dualshock 4 controller (high quality prospective test user)
- DualSense controller (ensuring modern relevance, prospective test user)
- Switch pro controller (prospective test user)
- DualShock 4/DualSense chatpad (for testing alternative to full size keyboard)

Signature and date student:	 9.3.2021
Signature and date supervisor:	 9/3/21

Upload to Moodle by Friday 06/03/20. Forms must be signed by a supervisor.