

# Project Proposal

G53IDS

Project Title: Applying Evolutionary Algorithms to Pokémon

Team Building

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11<sup>th</sup> October 2017

## 1 Background and Motivation

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## 2 Aims and Objectives

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### 3 Work Plan

To help outline the project flow and I have created a gantt chart (found in the appendix) and a the following descriptions of each portion.

#### Documentation

**Project Proposal** Write the project proposal and ethics form for approval of supervisor, due 13<sup>th</sup> October.

**Revised Project Proposal** Any revisions to the project proposal that need to be made after supervisor feedback, due 23<sup>rd</sup> October

**Interim Report** Write the interim report summarising the work so far, due 8<sup>th</sup> December.

**Dissertation** Write the final dissertation, due 24<sup>th</sup> April.

#### Research

**Research EAs** Research into the various Evolutionary Algorithms, like GAs, MAs & MMAs.

**Review languages for EAs** Primarily seeing if python has suitable features required to make the development of evolutionary algorithms easier or whether Java would be better suited.

#### Development

**Create GA Structure** Set up the basic main loop and the relevant interfaces

#### Miscellaneous

**Install Software** Install and configure the relevant software and libraries that are required for the project.

#### Other Commitments

**Welcome Week** First week of the year, time set aside to allow for settling in as well as running various welcome events.

**Christmas Holiday** Time off after Autumn term, Although not completely set aside allows for some time to relax.

**Autumn Exams** Potentially could have exams for the entire 2 weeks so is set aside to allow for revision and the exams themselves.

**Easter Holiday** Time off after Spring term, As no teaching is happening will give more time to concentrate on coursework and dissertation.

### References

- [1] R. M. Star. *Foo Bar Baz*. MIT Press, Cambridge, MA, 1989.