

Introduction of Gamification in Common Core Engineering

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Abstract –The Schulich School of Engineering is currently redesigning its first-year curriculum and will be piloting a number of new approaches in the Fall15/Winter16 academic year. In addition to experiences with flipped classrooms and online professional skills modules, we will be adding a component of gamification to one of our first-year courses. Gamification is the application of the typical elements of game playing (e.g., point scoring, competition with others, rules of play) to education in order to encourage engagement with the course material in a compelling and familiar way. This paper will describe the following: underlying game mechanics; game design techniques; and how these can be integrated into/added to/enhance engineering education. Approaches covered will include the following: using experience points to replace traditional grading; user-generated content; and a tiered rewards system giving students choices that enable them to strategically manipulate their relationship with the course material. Gamification has the ability to let students make choices based on their strengths. Given the four-player archetypes of Explorer, Achiever, Socializer, and Predator, it is important to include incentives that motivate each type of student. Effective gamification achieves not only engagement, but it also attends to cross-archetype engagement. That is, the Socializers will constantly inform the other students of achievements that have been discovered by mainly the Explorers, but when Explorers receive a new achievement, they will feel compelled to become a Socializer and tell everyone of their discovery. Predators might earn an achievement for passing a certain number of people on a leaderboard or for creating a question that was very challenging. They will then feel a sense of ownership and likewise will play the role of Socializer and inform others of their achievement. Examples of ways that gamification can be applied to current practices will be provided.

Keywords: Gamification, Cross-archetype engagement, User-generated content

1. INTRODUCTION

Engineering education faces a number of challenges, which requires schools across Canada to take a closer look at assessment and evaluation. In an effort to take advantage of elements of game playing with the aim of encouraging interaction with others and the creation of course material, gamification has become an area of interest and a current focus of curriculum redesign. This paper touches on new directions in engineering education (one of which is gamification). The paper then describes a number of findings on the impact of gamification, the mechanics of gamification, and the way in which we envision gamification in our curriculum redesign.

2. DIRECTIONS AND IMPACT

2.1. New engineering education directions

In a keynote presentation during the 2014 Reimagine Education Conference held at the University of Pennsylvania, Dean Geoff Garrett of the Wharton School commented that the three main developments currently transforming higher education were flipped classrooms, adaptive e-learning, and gamification. These comments were reflected in the two submissions that were deemed as being the most innovative at the 2014 Reimagine Education Conference. The first was PhET Interactive Simulations [1], online learning modules for K-12 that originated through the work of Nobel Prize recipient Carl Wieman when he was at the University of Colorado Boulder. The second was PaGamO [2], a multi-student social gaming platform that was developed for the first ever MOOC made in Chinese.

The fact that a social gaming system was highlighted out of submissions received from 427 universities and enterprises from 43 countries is indicative of the significant potential that exists when gaming is applied to the learning process. The pedagogical foundations that enable this are numerous and include student motivation, practice and feedback, and the development of mastery [3]. Not only does gamification provide student

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1. Understanding the eBook Common Core Engineering Questions
 - The Rise of Digital Reading Common Core Engineering Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Common Core Engineering Questions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Common Core Engineering Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Common Core Engineering Questions
 - Personalized Recommendations
 - Common Core Engineering Questions User Reviews and Ratings
 - Common Core Engineering Questions and Bestseller Lists
5. Accessing Common Core Engineering Questions Free and Paid eBooks
 - Common Core Engineering Questions Public Domain eBooks
 - Common Core Engineering Questions eBook Subscription Services

- Common Core Engineering Questions Budget-Friendly Options
- 6. Navigating Common Core Engineering Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Common Core Engineering Questions Compatibility with Devices
 - Common Core Engineering Questions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Common Core Engineering Questions
 - Highlighting and Note-Taking Common Core Engineering Questions
 - Interactive Elements Common Core Engineering Questions
- 8. Staying Engaged with Common Core Engineering Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Common Core Engineering Questions
- 9. Balancing eBooks and Physical Books Common Core Engineering Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Common Core Engineering Questions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Common Core Engineering Questions
 - Setting Reading Goals Common Core Engineering Questions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Common Core Engineering Questions
 - Fact-Checking eBook Content of Common Core Engineering Questions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

-
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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