**Computer Science Trends and Artifact Update**

**Technology 1: Apple’s iPhone/iPod**

**Technology 2: Automotive Fuel Injection**

1. What is the identification and description of each technology?

Apple introduced their iPhone and iPod to the world and the whole technology sphere changed overnight. By changing a phone into a personal computer and integrating high storage and fluid controls into a music player, Apple set a new standard for personal technology.

Automotives used to be entirely mechanical when they were first introduced. As technology became more compact and accessible, the integration of electrical systems was added for lights, spark, and music. One problem with older cars equipped with carburetors is their ability to start in the cold. By using a simple computer system, fuel could be injected into each cylinder separately in timing to increase the fuel efficiency of the motor and to allow the motor to start at lower temperatures.

1. What are the likely impacts on computer science or your career?

The impact of these technologies are increased jobs in the computer and technology fields and in creating, operating, and improving further developments. These inventions increased the need for individuals to push the envelope of what could be created with technology. Fuel injection also helped further the trend of increased efficiency and safety in vehicles while also reducing emissions and integrating comfort into our transportation.

1. How might the two technologies impact humans, communities, or the world?

These two technologies helped give the average person better access to technology and to promote the improvement of technology and its usability and quality. The items we use on a daily basis are more efficient, safer, and easier to use thanks to the implementation of these systems as a step towards our modern devices. We now have capable computers in our pockets and in our vehicles to make our lives better and easier.

1. Which course outcomes have you achieved so far, and which ones remain?

I have completed the three artifacts which are the backbone of my portfolio. I am in the process of using the feedback I have received to ensure my portfolio is the best reflection of my abilities that it can be. I have shown through these artifacts my knowledge of computer science and will review them to make sure I have covered all that the course requires.

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| Checkpoint | Software Design and engineering | Algorithms and Data Structures | Databases |
| Name of Artifact Used | 12hr & 24hr Clock | Contract Service | Tasks & Appointments |
| Status of initial Enhancement | Done | Done | Finishing Touches |
| Submission Status | Entered | Entered | In progress |
| Status of Final Enhancement | Complete | Complete | Incomplete |
| Uploaded to ePortfolio | Incomplete | Incomplete | Incomplete |
| Status of Finalized ePortfolio | Incomplete | Incomplete | Incomplete |