This assignment focuses on the need for rigorous software engineering techniques. Write a thoughtful 1-page (single-spaced, 11-point font, 1-inch margins) critique on the potential negative impacts when *ad hoc* software engineering techniques are used in the development of safety-critical applications.

After reading the Therac-25 paper and the article on Toyota’s unintended acceleration article, write a 1-page critique that addresses the following points.

1. What types of software engineering mistakes are common between the Therac-25 and Toyota cases? What mistakes were specific to each case? Explain your answers.

2. What could/should have been done differently to prevent such tragedies? Your answer should refer to technological advances and/or human factors and/or organizational factors.

3. Describe 2-3 key (research) challenges in software engineering that need to be addressed to prevent software-related injuries in the future?

Your critique will be evaluated according to the following criteria:

- Have you presented a cohesive writeup? (Do not submit short answers for each of the above points. The critique should be read as one document.)

- Have you addressed all of the technical points, using concrete examples to support your arguments?

- Does each paragraph have a thesis sentence with the paragraph body containing supporting text?

- Has the document been thoroughly proofread and typos eliminated?