CSC 126 A07: Safety

Enter your name:

Rules and procedures:

- Assignments such as this one are **to be done individually**, although you may always discuss the work with the professor, the TAs, and even your classmates as long as you ultimately do it yourself. See the syllabus for information about academic dishonesty.
- Any copies of your work or allowing anyone else to copy your work is academic dishonesty and will be treated as such.
- Make a copy of this worksheet in your private Google account.
- Change the document title username to be your Berea username.

Objectives

- Reflect on the costs and benefits of safety technology.

Although this assignment must be completed individually, you may consult with one another.

Before next time, do the following:

1. Read http://faculty.berea.edu/pearcej/CSC126/bottasks/KillerRobot-5.pdf or Silicon Techtronics Promised To Deliver a Safe Robot | Online Ethics and write a summary of what happened in this installment in the *Case of the Killer Robot*. Use no more than two paragraphs.

2. Read Industrial robot safety considerations, standards and best practices to consider - Control Engineering and write a one-paragraph summary of best practices in the world of industrial robotics.

3. Watch How Have Cobot Safety Standards Evolved For Human Interaction? - Everything About Robotics Explained and summarize the biggest changes you think might have prevented what happened in the fictitious Silicon Electronics. Explain your thoughts.

4. Watch Saw Stop - This guy puts a finger into an active table saw blade & comes away without a scratch! and describe the SawStop Technology and your reaction to its development. Use one or two paragraphs.

5. Read a legal article on the fate of the legislation related to safety technology: SawStop Table Saw Litigation: Three Key Takeaways for the Product Liability Practitioner. Then take a position on whether you believe table saw safety legislation should exist to ensure worker safety. Defend your position.

6. As of Jan 20, 2020, the International Federation of Robotics estimated that there more than 2.4 million industrial robots are operating in factories around the world. In 1970, the US Congress created the Occupational Safety and Health Administration (OSHA) to assure workers safe and healthful working conditions by setting and enforcing standards for workplace environments. Yet, OSHA's website still indicates that "There are currently no specific standards for the robotics industry." (www.osha.gov/SLTC/robotics/index.html) Given the ability to create safer robots, reflect on whether or not you believe there should be some kind of OSHA standards for robots used in workplace settings. Defend your position.

7. Drones are a type of robot that are increasingly being used to fight our wars. Watch Automated drone swarms, the beginning of AI-driven warfare, and discuss your thoughts about the increasing use of AI in drones and how civilian safety might be affected.

8. In Asia, robots are increasingly interacting with people. Watch Rise of the Humanoids: Inside China's Robot Awakening and discuss both your thoughts about utility and safety in the applications shown in the video. (Note this video is a bit longer than the others.

9. Here in the US, we have self-driving cars on our streets. Read Safety Considerations for Automated Passenger Vehicles | Congress.gov to learn more about safety rules for self-driving cars. Discuss your thoughts about the importance of these laws.

Integrity Statement

Please briefly describe all the help you gave to others in completing this assignment and all the help you received, including any help from AI.

To Submit

- When you are done, under file, download this file as a pdf and then submit it into Moodle.