**Cybersecurity in Computer Engineering**

Computer engineering and cybersecurity are combined in a manner of which they work together to achieve a common goal. Both fields aim to enhance and protect computers from potential threats. Computer engineering develops new machinery to combat the growing threats. However, cybersecurity also grows as computer engineering grows, because with the more powerful machines, more powerful attacks come to be, and thus a larger need for cybersecurity is created. Another way in which they intertwine is in possible malware attacks on a physical device. An example of this could be a hacker taking control of a keyboard or causing malfunctions in physical machinery. I designed a program that contains the computer engineering aspect of the keyboard, and the cybersecurity aspect of the potential threat by developing a keyboard checker. KeyboardCheck checks to make sure that the user’s keyboard is still functional. By having the user type in an argument, the code will then determine if the user is able to use their keyboard. However, computer engineering is doing even more to prevent possible cybersecurity threats. By developing newer protective options such as biometric authentication, quantum computing, and human computer interactions, the risk of cybersecurity related problems is decreasing. Overall, cybersecurity and computer engineering work hand in hand to benefit each other, by protecting the computer with cybersecurity, and enhancing the machine’s defense capabilities with computer engineering.

**Works Cited**

<https://www.linkedin.com/pulse/role-computer-engineering-cybersecurity-protecting-against-vishnu-m-p>