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Details: What role do engineers have in managing cyber risks?

I want to assume that by engineer we are looking at the classical sense of an engineer. A person who invents or design something new. I think that engineers have a massive role in managing cyber risks. Engineers have the monumental role of creating new systems that can prevent or mitigate security risks (Rapid7, 2018). Especially when it comes to developing a solution to human error and lack of training.

I think that people we ask to utilize the information systems are by far the largest risk in cybersecurity. We can't reeducate, retrain or prevent all people from using networked devices. So, engineers are required to develop systems that circumvent the knowledgebase of the average user. An engineer is most impactful when they develop a control that the average user never interacts with or needs to study a manual for. Mobile devices are better secured when a user stops using "123456789" and instead uses a thumbprint or facial recognition. Networked devices are safer using WPA2 out of the box without user input (Fitzpatrick, 2017). And data facilities are better prepared for incidents when they upgrade from simple firewalls to Intrusion prevention systems.

References

- Fitzpatrick, J. (2017, August 24). The Difference Between WEP, WPA, and WPA2 Wi-Fi Passwords. Retrieved February 9, 2020, from <https://www.howtogeek.com/167783/htg-explains-the-difference-between-wep-wpa-and-wpa2-wireless-encryption-and-why-it-matters/>
- Rapid7. (2018, January 11). Defining the Roles & Responsibilities of Your Security Team. Retrieved February 8, 2020, from <https://blog.rapid7.com/2016/08/18/defining-the-roles-responsibilities-of-your-security-team/>