

Security Fundamentals Summary

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Security Fundamentals was presented by Aaron Barnett, Director of Information Systems at Moreno Valley USD and Jon Robinson, President, Digital Scepter. After introductions Aaron led the class in a discussion of the internet of things. This demonstrated the impact of internet and internet security in our daily lives. This was followed by a discussion of innovations that will impact us; robots, 3D printing, driverless cars, an all IP world and haptic interfaces. This was based on an article by Gary Shapiro, President of CEA.

Aaron shared a variety of security vulnerabilities and exploits from news sources and personal experience. Statistics were presented that demonstrated the exponential increase in internet users worldwide and the class discussed the implications of this growing universe. After fueling the participant's interest with these examples Mr. Barnett covered some legislative considerations for security from the perspective of CTO's responsibility to the learning community with an emphasis on students. These included California's Database Security Breach Notification Act CA SB 1386, California SB-46 Personal information, The Family Educational Rights and Privacy Act (FERPA), COPPA Children's Online Privacy Protection Act Federal Law, AB 1584 Protecting Student Records Under 3rd party Contracts, AB1442 Students' Privacy in Social Media, S.B. 1177 SOPIPA Student Online Personal Information Protection Act. Jon Robinson followed with an overview of the security triangle; availability, reliability and confidentiality. Jon also provided several real world examples and statistics to emphasize the growing threat of data breaches and provided several recommendations for best practices.