David M. Snyder, MBA, PE, CISSP, CCSP
Technology Manager

I help organizations make sure products and processes are developed and implemented securely in healthcare, critical infrastructure, and environmental systems.

With a diverse background in engineering, critical infrastructure, healthcare, and cybersecurity, David Snyder helps organizations develop and implement technologies securely. His experience includes **program management** and **product management** at companies like Apple, Google, Kaiser, First Data, PayPal, Yahoo, and various startups for data security, electronic payments, mobile applications, and healthcare systems. Among his strengths is the ability to explain technology to business people and business requirements to technologists.

David is a **Certified Information Systems Security Professional**, **Certified Cloud Security Professional**, **IEEE Senior Member**, and **former Certified Respiratory Therapy Technician** with hands on medical device experience with ventilators and blood gas analyzers in Intensive Care Units. He also has medical device project management experience.

David has researched **cybersecurity for medical devices** and **Internet of Things (IoT) devices**, including remote patient monitoring, environmental sensors, and critical infrastructure. Especially the modeling of remote patient monitoring as a "system of systems." See https://www.42tek.com/RPM_Cybersecurity.pdf.

At Apple, David managed **global expansion** of Apple's online and in-store credit card payment systems and established Apple's initial program for compliance with the Payment Card Industry Data Security Standard (PCI DSS). He has also worked in Apple's team for **Public Key Infrastructure (PKI)**.

At Kaiser Permanente, David guided **technical systems development** for a unique combined private label credit card/health plan membership ID, from business systems analysis and requirements definition through development, testing and deployment, including new POS terminals loaded with custom applications. He also managed **system upgrades** to Kaiser's central switch for credit card payments.

As the VP, Product at AppMedicine, Inc., David guided development of **HIPAA-compliant web and mobile apps and cloud-based tools** for provider-patient communication, patient guidance, and chronic care management.

David's **device manufacturing experience** includes credit card reader companies BBPOS and ViVOtech and a project on an electromechanical medical device.

As an environmental engineer, David conducted **environmental impact studies** for energy facilities such as power plants, transmission lines, and pipelines. He managed **environmental, health, and safety regulations** work for Chevron Pipe Line and then the **investigation and remediation of soil and groundwater contamination** at industrial sites.

In 2019, 2020, and 2021 David was a volunteer at the **DEFCON 27, 28, and 29 Biohacking Village** focusing on medical device cybersecurity (https://www.villageb.io). He was a volunteer for the **DEFCON 31 Policy Department**.

Speaking Engagements

David has been the organizer, moderator, or speaker for more than 20 conferences and seminars on data security, healthcare, and payments topics, including **Blockchain and its applications in IoT** at the 38th IEEE Sarnoff Symposium in 2017, **Cybersecurity & the Future of Remote Patient Monitoring** in 2019 and 2020, and **Remote Patient Monitoring Ecosystem Security** in 2021. In 2022, David helped organize and moderate sessions for the **2022 IEEE Global Humanitarian Technology Conference** (https://ieeeghtc.org). He was the organizer of the **SVForum Healthcare IT Special Interest Group** from 2011 to 2014.

Education and Training

David's range of technology experience allows him to excel in managing cross-functional, multidisciplinary programs. He studied Political Science and Philosophy at **Grinnell College** in Iowa, then transferred to **Carnegie-Mellon University** for a double major in Civil Engineering and Engineering and Public Policy and after graduating became a **registered Civil Engineer** (PE) in California. Later, he obtained a MBA in Technology Management at the **University of Phoenix**.

During his college years, David was a **Certified Respiratory Therapy Technician** working in hospital Intensive Care Units. He became a **Certified Information Systems Security Professional** in 2015, a **Certified Scrum Master** in 2016, and a **Certified Cloud Security Professional** in 2021. David is also a California-registered **Professional Engineer**.

David is a past Board member of the **Northern California Chapter of HIMSS** (http://norcal.himsschapter.org) and currently on the Board of the **Consultants Network of Silicon Valley** (IEEE Affinity Chapter) (https://californiaconsultants.org).

Based in Silicon Valley, David provides services through his company, 42TEK LLC.