SAGAR PATEL

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Address: Columbus, OH

Education

M.S. - ELECTRICAL & COMPUTER ENGINEERING – Drexel University - Philadelphia – (2014-2016)

B.TECH - ELECTRICAL & COMPUTER ENGINEERING – Nirma University - India – (2010-2014)

Work Experience

SECURITY SOFTWARE ENGINEER – Battelle Memorial Institute **-** Columbus, OH - July 2016 – Present

- Research for using Statistical Modeling for Network Protocol Reverse Engineering and Simulation
- Responsible for designing and implementing various fuzzing strategies for Bluetooth based embedded IoT/Medical devices for Device Secure team
- Collaborating with EE/SW/Cyber engineers for secure architecture design & review, cyber risk assessments, risk mitigation analysis, public key infrastructure (PKI), penetration testing and related areas
- Embedded system software engineer, collaborating with the software development team that helps medical device manufacturers to prototype solutions

SOFTWARE ENGINEERING INTERN – Battelle Memorial Institute **-** Columbus, OH - August 2015 – December 2015

- Worked with the Product development team to develop software applications offered by the Device Secure team
- Responsible for designing and implementing various fuzzing strategies for Bluetooth based Medical Devices for Device Secure team
- Worked on L2CAP and RFCOMM layer security vulnerability testing and enhancements.

GRADUATE TEACHING ASSISTANT – Drexel University - Philadelphia, PA - March 2015 – June 2016

- Courses assisted involve: Systems Programming, Systems Architecture, and Introduction to Hadoop & MapReduce

Publications

IEEE SEC – April 2014

- An application of IEEE 802.15.4 for Locating and Monitoring Thermal Hot-spot using High Directive Temperature Sensor
- Paper URL: http://bit.ly/1Wcypv6 (Listed on 8th spot)

Conferences

SPEAKER - EMBEDDED SYSTEMS CONFERENCE, MINNEAPOLIS – Nov 2017

- Leveraging Machine Learning to Test the Robustness of Communication Protocols

Honors and Awards

BUSINESS DEVELOPMENT AND SALES ACHIEVEMENT AWARD – Battelle Memorial Institute - March 2017
DeviceSecure® Team for their work on a service/product family called DeviceSecure®. DeviceSecure® represents a suite of services that answer market needs in product cyber security for medical device development companies.

EMERGING SCIENTISTS AND ENGINEERS COUNCIL – Battelle Memorial Institute – Nov 2016 – July 2018
Elected member in a 15 person council directly reporting to the CTO; which works on various technical and non-technical initiatives.

Technical Skills

Programming Languages	Tools, Libraries and OS (non-comprehensive list)
Python, Embedded C, MATLAB, Shell scripting, JAVA	Burp, Git, LaTeX, Linux, Wireshark, nmap