KYLE FIDUCIA

MAIL@KFIDUCIA.COM
941.650.9350

PROFILE

Seeking an opportunity focused on innovation that rewards creativity and self-direction and emphasizes abilities rather than discrete skills. The ideal position would leverage a diverse background in technology, a Master's Degree in Electrical Engineering, exceptional skills in problem solving, technology commercialization, and research and development, as well as strong soft-skills for communication and customer and management interaction to create new ideas, solutions, or products. Recent work has focused on penetration testing and security research and development.

Active Security Clearance: **TS/SCI + Government Poly**; Willing to travel and relocate.

EXPERIENCE

ALTUS CONSULTING
Senior Systems Engineer
May 2012 - Present

Penetration Testing Team Subject Matter Expert focused on identifying and exploiting security vulnerabilities within the customer enterprise. Assessments led to significant improvements to host, account, PKI, and database security. Areas of responsibility beyond standard network and endpoint security included evaluations of emerging technologies, security products, mobile devices, wireless systems (LTE, WiFi, Other), and any advanced exploitation exercises. Assessments included solutions engineering for vulnerability mitigation. Cyber Defense and Insider Threat Subject Matter Expert for global operations network. *Chantilly, VA*

LOCKHEED MARTIN
Systems Engineer
Sep 2009 - May 2012

Simultaneously supporting multiple programs; *Secure Mobile Platforms:* Lead engineer for research and development dealing with secure wireless systems, enterprise mobility, network security, and emerging mobile technologies. Establish vendor relationships, interact with customers, design and recommend technology architectures and roadmaps. Respond to RFIs with technical white-papers and presentations as a subject matter expert.

Systems Engineering: Responsible for understanding complex customer missions, researching, synthesizing, and executing technical solutions to enhance mission success. Requiring flexibility to adapt to evolving needs and a deep comprehension of a wide range of topics. Must balance technical limitations with mission needs, mitigate risk, and maintain program security. Regularly brief customers and management on complex solutions, new technologies, and deployment strategies in a comprehensible manner. *Herndon, VA*

CRANE CONSULTING
Founder / Consultant
Feb 2001 - Present

Responsible for developing and deploying dependable and cost-effective solutions for a diverse range of client interests, as well as troubleshoot and diagnose a plethora of client issues, generally without systems history or background. Services provided include: network and server support, web application development, electronic widget circuit design and prototyping, and more. *International*

FLORIDA SPACE INSTITUTE
Research Assistant
Nov 2007 - Jun 2008

DARPA research project to remotely sense wind vectors using laser sensors at UV frequencies; DIA project dealing with laser detection hardware and algorithms; DARPA Tactical Communications Data Link replacement, "ORCA", airborne optical communications link design and testing. *Cape Canaveral, FL*

CENTRAL FLORIDA REMOTE SENSING LABORATORY
Research Assistant
Aug 2007 - Jun 2008

Simulation, analysis and development of algorithms dealing with wind vectors, rain rate, sea-surface temperatures and noise in storm systems using aircraft and satellite borne radiometers and scatterometers. Also worked on a contract project for Raytheon dealing with ground penetrating radar systems. *Orlando, FL*

UNIVERSITY OF SOUTH FLORIDA
Network Administrator
Jun 2000 - Aug 2002

Built and configured Windows 2000 servers; Responsible for testing and maintenance. Developed new web applications for staff and students. *Sarasota, FL*

EDUCATION

MASTERS ELECTRICAL ENGINEERING	University Of Central Florida	2008
BACHELORS ELECTRICAL ENGINEERING	University Of Central Florida	2007
MICROSOFT CERTIFIED SYSTEMS ENGINEER	Keiser University	2001
CISCO CERTIFIED NETWORK ASSOCIATE	Sarasota Technical Institute	2001

SKILLS

Systems/Environments Microsoft Windows Desktop & Server (All Versions), Linux, Apple OS X & iOS, Google Android, VMWare ESXi, Citrix Xen Server, Cisco IOS

Languages Python, PHP, MySQL, HTML, CSS, JavaScript, BASH

Technologies Virtualization, TCP/IP Networking, LAN/WAN/Wireless Networks and Topologies, LTE Systems, PKI, Databases, Cryptography, IPv6, DNS, VPN, 802.1X, many other security technologies

Software Kali Linux, Metasploit, BurpSuite, Wireshark, vSphere, MATLAB, Microsoft Office, Mathematica, Eagle Circuit Board Layout/Design, MathCAD

Other Skills Exceptional interpersonal, analytical, problem resolution, presentation, and organizational abilities. Strong oral and written communication skills. Advanced troubleshooting and diagnostic skills; capable of identifying problems quickly without much prior knowledge of the situation.

In-depth knowledge of diverse business areas, including production, distribution, and marketing. Highly effective at communicating plans, requirements, and results to professionals at all management levels and technical backgrounds.

CERTIFICATIONS

Microsoft Certified Professional	2001
CompTIA A+ Certification	1999

COURSEWORK

Senior Design Project [Undergraduate] Vehicle Data Logging Device; Hardware Design and Production; Interfaced with passenger vehicle On Board Diagnostics; Captured Images, Acceleration Data, GPS Data, and Yaw Rate. Also included application to post-process collected data. http://kfiducia.com/SDP07W/

Satellite Communications [Undergraduate] Communications satellites, Earth stations, Link Budget Calculations, FDMA and TDMA. Satellite link budget calculation and analysis.

Radar Systems [Graduate] Pulse and CW Radar Systems, Chirp Radar, Tracking Radar, Noise in Radar Systems.

Wireless Communications [Graduate] Cellular networks, multiple-access protocols, channel assignment and resource allocation, mobility and location management, handoffs, routing, authentication, call admission control and QoS provisioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA). Developed small-scale fading and multi-path propagation models.

Communications System Design [Graduate] Information and coding theory. Modem design. Modulations. Intersymbol interference and pulse shaping. DS and FS spread-spectrum systems. Developing a solution to the DARPA ORCA project.

Satellite Remote Sensing [Graduate Level] Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere geophysical measurements.