

# Miguel Hernández y López

Security Engineering Manager at Check Point Software Technologies

me@mike.com.mx

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## Summary

### OBJETIVE

Provide senior advisory services in area of Information Technology with a concentration on Network, Systems, Information Security and Risk. Protect confidentiality, integrity, and availability of information systems. Advise and engineer secure solutions for business opportunities.

Broad knowledge of hardware, software, and networking technologies to provide a powerful combination of analysis, implementation, and support. Experience in network security, security risk management, incident analysis and recovery.

Has been involved in information security management, enterprise security monitoring, honeynets, penetration testing, incident handling, and forensics analysis. Specific research interests include enterprise security monitoring, honeynet and data analysis.

A frequent conference speaker in many Security Workshops. (Available upon request)

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## Experience

### **Security Engineering Manager at Check Point Software Technologies, Ltd.**

September 2015 - Present (11 months)

- Managed a team of Pre-Sale Engineers in Mexico.
- Identify of business opportunities and support the sales process.
- Managing technical projects, gathering customer requirements and creating technical solutions for a given scenario focused into High Performance Test PoC for Check Point Network security products.
- Provide thought leadership, expert opinion, research and analysis to senior security executives of end-users who are responsible for the success of their firm's strategies for protecting their sensitive data assets, security architecture and operations
- Work with Partner & Account Manager and provide/write a response to RFI/RFP.
- Guide Account and Channel Managers, keeping an emphasis on selling a solution that is supported and within the scope of the product.
- Compliance within customers and netnew customers.
- Become a technical escalation point and guide customers as required.

## **Security Engineer at Check Point Software Technologies, Ltd.**

January 2013 - September 2015 (2 years 9 months)

- Managing technical projects, gathering customer requirements and creating technical solutions for a given scenario focused into High Performance Test PoC for Check Point Network security products.
- Provide thought leadership, expert opinion, research and analysis to senior security executives of end-users who are responsible for the success of their firm's strategies for protecting their sensitive data assets, security architecture and operations
- Work with Partner & Account Manager and provide/write a response to RFI/RFP.
- Guide Account and Channel Managers, keeping an emphasis on selling a solution that is supported and within the scope of the product.
- Become a technical escalation point and guide customers as required.

Best Channel Manager Team of the Year 2014 for Latin America

## **Security Manager at HSBC**

August 2012 - January 2013 (6 months)

- Integration of the HBMX and departmental level cyber security incident plans.
- An increased understanding and awareness of information security vulnerabilities that, in turn, improves the overall security posture of the Corporation.
- Global Team Leader of the Intrusion Prevention System WorkGroup (IPS) in HSBC.
- Assist departments with analysis, resolution, and maintenance of information technology security risks, threats, vulnerabilities, and protection requirements

## **Sr Network Security Engineer - Electronic Arts (vendor) at Softtek**

January 2012 - August 2012 (8 months)

Hardening and Auditing Firewalls ASAs, Routers and Switches. Assess threats, risks, and vulnerabilities from emerging security issues. Security Assessment & Risk Analysis: To all critical networking devices in order to compliant to the Secure Application Design Standard and other security industry standards.

## **Security Researcher at The HoneyNet Project**

April 2005 - August 2012 (7 years 5 months)

<http://www.honeynet.org>

Founded in 1999, The HoneyNet Project is an international, non-profit (501c3) research organization dedicated to improving the security of the Internet at no cost to the public. With Chapters around the world, our volunteers are firmly committed to the ideals of OpenSource. Our goal, simply put, is to make a difference. We accomplish this goal in the following three ways.

**Awareness** We raise awareness of the threats and vulnerabilities that exist in the Internet today. Many individuals and organizations do not realize they are a target, nor understand who is attacking them, how,

or why. We provide this information so people can better understand they are a target, and understand the basic measures they can take to mitigate these threats. This information is provided through our Know Your Enemy series of papers.

Information For those who are already aware and concerned, we provide details to better secure and defend your resources. Historically, information about attackers has been limited to the tools they use. We provide critical additional information, such as their motives in attacking, how they communicate, when they attack systems and their actions after compromising a system. We provide this service through our Know Your Enemy whitepapers and our Scan of the Month challenges.

Tools For organizations interested in continuing their own research about cyber threats, we provide the tools and techniques we have developed. We provide these through our Tools Site.

### **Sr Security Engineer at Novared**

January 2010 - December 2011 (2 years)

Install and maintain security infrastructure, including Firewalls, log management, and security assessment systems. Assess threats, risks, and vulnerabilities from emerging security issues. Perform and create procedures for system security audits, penetration-tests, and vulnerability assessments. Responsible for support of existing security policies and procedures, as well as creation and implementation of new security procedures. Risk assessment of partners.

### **Security Engineer at Novared**

March 2008 - December 2009 (1 year 10 months)

Install and maintain security infrastructure, including Firewalls, log management, and security assessment systems. Assess threats, risks, and vulnerabilities from emerging security issues. Perform and create procedures for system security audits, penetration-tests, and vulnerability assessments. Develop scripts to maintain and backup key security systems. Responsible for support of existing security policies and procedures, as well as creation and implementation of new security procedures.

### **Security Engineer at Gobierno del Estado de Tamaulipas**

September 2003 - February 2008 (4 years 6 months)

Managed +5000 computer network for the Government of Tamaulipas revenue collection departments. Experience in network & systems management, client server distributed computing, facilities management, capacity planning, performance tuning, systems security, workload analysis and more. Responsible for Developing, Implementing, and monitoring the enterprise-wide information security, business assurance, and IT management programs to ensure the integrity, confidentiality, and availability of information and systems. Mentor and train others in information security in addition to training for other technical groups. Lead Security Architect for Compliance projects and major IT Governance Risk.

Work with various ITS operational groups to manage security risks. Lead, participate, and coordinate audits and security projects. Work with third party vendors to ensure they comply with Tamaulipas Government security requirements. Define, plan, and implement security technology within Tamaulipas Government. Maintain security compliance applications to ensure appropriate security controls are achieved. Ensure compliance with security policy across platforms such as Firewalls, IDS, Apps Servers (Windows, Unix and Linux) and treasury applications. Lead the establishment, monitoring, and maintenance of system access for end-users and client base. Support investigative functions with technical expertise and leadership. Conducting/coordinating information security risk assessment and analysis. Define global information risk solutions and security, create information security management systems.

### **IT Network & Security Analyst at Camalion Network**

January 2001 - September 2003 (2 years 9 months)

Maintained security of voice and data networks and equipment. Monitored and maintained physical and logical security and access to systems. Responsible for support of existing security policies and procedures, as well as creation and implementation of new security procedures. Risk assessment of partners. Presented options to management for the enhancement of DNS, firewall, modernization of firewalls, and inbound e-mail security and robustness. Assisted with the upkeep of network infrastructure including switches and load balancers. The administration was done remotely.

### **IT Network & Security Analyst at Dyse Network**

September 2000 - September 2003 (3 years 1 month)

Participated in creation of Security Operations Center for the company, which maintained hundreds of end-users and applications spread throughout regional location. Responsibilities included end-user troubleshooting, document creation, and Firewalls security policies.

As a Linux SysAdmin used knowledge of bind, apache, http, mail, SSH, and security to retrofit existing systems, improved security systems. Firewall creation and maintenance using Cisco ACLs, Linux iptables, FreeBSD pf. Documented exiting and in-development policies, procedures, and systems. Deployed distributed intrusion detection sensor network. Security lead on new product design team.

### **Information Security Analyst at University Practice Lab (Cisco Systems Sponsored)**

2001 - 2003 (2 years)

The purpose of the Laboratory is to offer the students and academics, to learn and investigate the It areas; and give them all the necessary resources to obtain a Cisco Systems certification as CCNA, CCNP or CCIE.

Recommended preventive, mitigating, and compensating controls to ensure the appropriate level of protection and adherence to the goals of the overall information security strategy. Assisted in the development of access-controls, separation of duties, and roles. Conducted technical risk evaluation of hardware, software, and installed systems and networks. Assisted with testing of installed systems to ensure protection strategies are properly implemented and working as intended. Assisted in incident response and recommend corrective

actions. Communicated with personnel about potential threats to the work environment. Participated in forensic recovery and analysis. Participated in development and maintenance of global information security policy.

<http://www.upl.uat.edu.mx>

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## Education

### **University of Buenos Aires**

Masters Degree, Computer Science, Information Technology, 2008 - 2008

### **Universidad Autónoma de Tamaulipas**

BS, Computer Science, Information Technology, 2001 - 2006

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## Certifications

### **CCSM - Check Point Security Master**

Check Point Software Technologies, Ltd. January 2015

### **CCSE - Checkpoint Certified Security Expert**

Check Point Software Technologies, Ltd.

### **CCSA - Checkpoint Certified Security Administrator**

Check Point Software Technologies, Ltd.

### **CCS - Crossbeam Certified Specialist XOS**

Crossbeam Systems

### **CISSP - Certified Information Systems Security Professional (In progress)**

(ISC)<sup>2</sup>

### **WCE - Websense Certified Engineer**

Websense

### **FCNSA - Fortinet Certified Network Security Administrator**

Fortinet

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## Languages

### **English**

(Full professional proficiency)

### **Spanish**

(Native or bilingual proficiency)

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## Publications

### **Cyber Security and Global Information Assurance: Threat Analysis and Response Solutions**

U.S. Air Force Academy, USA April 1, 2009

Authors: Miguel Hernández y López, Carlos F. Lerma

ISBN: 978-1-60566-326-5

Chapter XVIII: Introduction, Classification and Implementation of Honeypots

This chapter discusses the basic aspects of Honeypots, how they are implemented in modern computer networks, as well as their practical uses and implementation in educational environments, providing the reader with the most important points regarding the main characteristics of Honeypots and Honeynets. Honeypots are defined as “closely monitored network decoys” that can be set by network administrators to deal with a wide variety of attacks and interact with users in different levels (Provos, 2004). The implementation of Honeypots provides an answer to a common question posted by the field of information security and forensics: How to dissect the elements that make up an attack against a computer system. The chapter will summarize the different features and capabilities of Honeypots once they are set up in a production environment to clarify the elements that are needed to be configured in order for a Honeypot to accomplish its main tasks and in order for it to be considered an effective tool. The end of the chapter will shift towards the analysis of virtualization as an important tool that maximizes the practical use of Honeypots in controlled environments that are focused towards the study of attacks, responses and analysis methods.

<http://www.amazon.com/Cyber-Security-Global-Information-Assurance/dp/1605663263>

### **“Practical application of Honeypots in Computer Network Protection and Monitoring”**

CienciaUAT Magazine (In Spanish) October 2008

Authors: Miguel Hernández y López, Carlos F. Lerma

### **“Introduction, Classification and Implementation of Honeypots”**

"Cyber Security and Global Information Assurance: Threat Analysis and Response Solutions" - IGI Publishing 2009

Authors: Miguel Hernández y López, Carlos F. Lerma

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## Skills & Expertise

**Intrusion Detection**

**Ethical hacking**

**Security Risk Management**

**Risk Assessment**

**PenTesting**

**Network Security**

**Security Management**

**Risk Mitigation**

**Fraud Prevention**

**Risk Assessment Tools and Methods**

**IT Security Framework Design and Implementation**

**Reverse Engineering**

**Security Audits**

**Computer Security**

**Vulnerability Management**

**Vulnerability Assessment**

**Vulnerability Scanning**

**IDS**

**Firewalls**

**VPN**  
**Identity Management**  
**Linux**  
**Unix**  
**Information Security Management**  
**Security Policy**  
**Network Administration**  
**IPS**  
**Web Application Security**  
**Vulnerability**  
**Application Security**  
**Security Awareness**  
**Checkpoint**  
**Malware Analysis**  
**Security Assessments**  
**Security Information**  
**Hardening**  
**PCI DSS**  
**Cyber Security**  
**Security Research**  
**Information Security Policy**  
**Penetration Testing**  
**Security**  
**Information Security**  
**CEH**  
**Cisco Technologies**  
**Risk Management**  
**CISSP**  
**Incident Response**  
**Internet Security**  
**ISO 27001**

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## Interests

Information Security, Honeynets/Honeypots, Reverse Engineering, Intrusion Detection, Security Risk mitigation, CyberCrime.

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## Honors and Awards

### **Security Engineer**

Check Point Software Technologies

January 2015

Best Channel Manager Team of the Year 2014 for Latin America

The Check Point SKO is the premier event for recognizing exceptional performance by the Check Point Software Technologies sales team. It recognizes the top sales representatives, security engineers, sales managers, and software specialists from every region around the globe.

**Named Account Security Engineer**

Check Point Software Technologies

January 2016

Best Account Team of the Year 2015 for Latin America

For second year in a row.

The Check Point SKO is the premier event for recognizing exceptional performance by the Check Point Software Technologies sales team. It recognizes the top sales representatives, security engineers, sales managers, and software specialists from every region around the globe.

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## 36 people have recommended Miguel

"Miguel is an excellent engineer focused on customer service. I had the opportunity to work with and see their soft skills to manage the situation with the customer. I recommend Miguel for the way he works and customer focus."

— **Mario Jaramillo**, was Miguel's client

"It is a pleasure for me to see the upstroke of Michael. When you reach your desires is when your work is really effective. I've been working with him over the years that he was in Buenos Aires, where he led security professional services in customers with critical operations. Continues to grow!"

— **Veronica Meneguzzi**, worked with Miguel at HSBC

"Miguel es una persona trabajadora, con alto sentido de responsabilidad y consciente de la trascendencia de las decisiones. Durante el tiempo que Miguel trabajó para la compañía, mostró sus capacidades técnicas y facilidad para las relaciones humanas."

— **Adrian Ruiz Mondragon**, managed Miguel indirectly at HSBC

"Excellent professional, goal oriented and responsible makes Miguel a great IT Security Professional. His previous experience on IT help him to meet with the daily challenges that were presented in the time that Miguel work with us. I hereby extend my broadest recommendation to Miguel."

— **Samuel Borrego**, managed Miguel at HSBC

"Mr. Hernandez y Lopez is a very talented professional who owns a deep knowledge about security technologies on a low-level perspective. The time we worked together he showed his high level skills on the IT Security area in the practice at work, and out working on his external projects mainly with the HoneyNet Project. I extend my full recommendation Miguel for any kind of technical job on IT, in special the security field."

— **Christian Navarrete**, worked directly with Miguel at HSBC

"Miguel is our Online Security go-to guy. Most of our security initiatives achieved this year would not have happened if not for Miguel's hard work. Miguel is an asset to any network security team."

— **Joe Fite**, managed Miguel at Softtek

"Miguel is a research-oriented individual who excels at implementing effective security solutions through extensive understanding and investigation of network security inside an organization. Miguel's skills are particularly valuable because he is a detail-oriented individual who aims his work at providing effective solutions that solve real problems. I recommend him extensively to anyone who is looking for a security professional that is willing to take things to the next level when it comes to effectiveness and functionality."

— **Carlos F. Lerma**, worked directly with Miguel at The HoneyNet Project

"Miguel is a very hard working guy, he has several special abilities, self learner, very proactive, always interested on edge security technologies. I consider Miguel an Open source promoter in every sense, I can fully recommend his work, and his friendship."

— **Jose Mario Trujillo**, worked directly with Miguel at The HoneyNet Project

"Miguel Hernandez y Lopez was the primary author of a high quality and extremely informative chapter in a peer-review Cyber Security book where I served as the editor. Over a 2-year period, Miguel proposed, wrote, and developed an outstanding chapter on the "Introduction, Classification and Implementation of HoneyPots". In a highly professional and timely fashion, he worked with three reviewers as well as myself to finalize his published work. For me, it was a privilege to work with Miguel -- he is an accomplished researcher, author and expert in the area of network security and especially regarding honeypots and honeynets."

— **Kenneth Knapp**, was with another company when working with Miguel at The HoneyNet Project

"Miguel is an active member of the HoneyNet Project and has contribute greatly to both the organization and the community. I highly recommend Miguel."

— **Lance Spitzner**, worked with Miguel at The HoneyNet Project

"Miguel is focused in his role and responsibilities. He works towards objectives and make sure they are accomplished on time. Miguel always optimize the resources and coordinates the task and priorities. He is very good at detecting possible problems and take decisions to avoid them."

— **Christian Conejero**, *Líder Area Networking, Visa Argentina S.A.*, was Miguel's client

"He is an expert of checkpoint solutions. He was very usefull to resolve many problems associated with checkpoint firewalls in BCRA."

— **Augusto Pereyra**, was Miguel's client

"Miguel is able to combine really well his outstanding technical skills together with permanent innovation and a clear view of what the business expects from an IT Security team. He is also very keen in sharing his knowledge and allowing his team to provide positive input for all kinds of projects."

— **Pablo Saad**, was Miguel's client

"Mike is an excellent person with great dedication and passion for his work, moreover transmits it to his partners. He is very responsible and always willing to make challenges."

— **Bruno Calveti**, worked directly with Miguel at Novared

"Both personally and professionally Miguel is exceptional in his field. He's a professional who always show knowledge, proactive attitude and passion for the job. I strongly recommend Miguel, he's an extremely valuable professional."

— **Martin Moszenberg**, worked with Miguel at Novared

"Miguel is an excellent professional. He has great knowledge and experience on security technologies and networkings. During the time we worked together he has shown to be really responsible and committed to his work, and also responds well under critical situations. He is a great partner and taught me a lot of his knowledge."

— **Fernando Lopez**, worked directly with Miguel at Novared

"During the time we worked together, I must emphasize the predisposition of Miguel in meeting challenges and goals, his analytical capacity and proactivity has borne fruit in critical situations of the business, has been a pleasure to be part of the same workgroup."

— **Eber Morón**, worked directly with Miguel at Novared

"Miguel es un profesional sumamente comprometido, proactivo, enfocado a resultados y con gran conocimiento del área. Asimismo, cuenta con un fuerte respaldo de estudios, que avalan su práctica en el área de Tecnología de Telecomunicaciones y Seguridad Informática."

— **Federico Castañeda**, worked with Miguel at Novared

"Miguel is a valuable asset to any InfoSec Company. Swift and concrete, he can conduct many tasks flawlessly even under the pressure of time, whether critical or regular maintenance."

— **Marcos Nieto**, worked with Miguel at Novared

"Miguel is a committed/dedicated engineer with great customer facing skills."

— **Juan Bautista Carcavallo**, was with another company when working with Miguel at Novared

"Miguel has a lot of knowledge about security, he knows how to work under pressure and keep moving behind new technologies. He is a very hard worker and a high skilled professional. Miguel is the kind of professional that I really recommend to work in any area of IT Security."

— **Fernando Avila**, managed Miguel at Novared

"“I have worked with Miguel as a business partner and he is a very committed professional that is always adding value and experience to the challenges. A knowledgeable professional and a trustworthy person.”"

— **German De Palma**, was Miguel's client

"Miguel is a very talented engineer with a very deep knowledge of IT security. It was a pleasure working with him as he is a very good person and an excellent professional."

— **Ariel Santa Cruz**, managed Miguel at Novared

"Miguel is a highly skilled professional. He is very knowledgeable in his field of expertise and very detail oriented when working with the company's most demanding customers. I strongly recommend Miguel, you won't be disappointed."

— **Jaime Diaz**, worked directly with Miguel at Novared

"Miguel es una persona muy creativa y con un gran espíritu de investigador, lo que lo hace un excelente ingeniero en el área de seguridad."

— **Leonardo Granda, CISSP, CCSK**, worked directly with Miguel at Novared

"Miguel is a cooperater in problem solving, , excellent teamworker and friend!"

— **Maximiliano Comerci**, worked directly with Miguel at Novared

"Always a pleasure working with a smart guy like Miguel"

— **George Hanna, CCMA**, was with another company when working with Miguel at Gobierno del Estado de Tamaulipas

"Miguel, es una persona con un alto nivel en el área de la seguridad informática, muy responsable lo cual refleja su gran compromiso con sus actividades. Siempre tiene metas y trabaja sobre objetivos."

— **Edgardo Guzman**, managed Miguel at Gobierno del Estado de Tamaulipas

"Miguel es un hombre muy comprometido con su trabajo, y se nota que le gusta mucho lo que hace. Por esto eres un gran ejemplo, y es un orgullo que nos represente en conferencias internacionales!! Felicidades Miguel por tus exitos!! estoy segura que vienen muchos mas!!"

— **Pia Montserrat Corona Montemayor**, was with another company when working with Miguel at Gobierno del Estado de Tamaulipas

"Miguel is a great person to work with, a really good team player and a very experienced IT professional with excellent interpersonal skills, he would be a great addition to any enterprise."

— **Oleg Garrido**, was Miguel's client

"Miguel continues to impress me in his innovative ways of resolving hard problems. A person you can trust and could always count on delivering more than a 100% every time. He has the ability to work very well under pressure, his technical knowledge and the interest that he has in the security systems could not be ignored. I would recommend Miguel anytime."

— **Karina Butrón**, was with another company when working with Miguel at Gobierno del Estado de Tamaulipas

"Miguel is a great person; I met him, when we have studied together in the high school. In that time I knew of his great potential in the informatics field and its showed in all his jobs where he worked, I don't have any doubt that Miguel will have excellent results in any company."

— **Rafael Pulido, MBA**, worked with Miguel at Camalion Network

"I highly recommend Miguel as he's such a good and project-oriented engineer. I have personally worked with him side-by-side and he's a truly valuable team member who cares not only about his work but everybody else's. I've seen Miguel manage big and complex projects very successfully as he's such a good project manager. I highly recommend Miguel!"

— **Heriberto Cabrera**, worked with Miguel at University Practice Lab (Cisco Systems Sponsored)

"Tiene un amplio conocimiento y experiencia en el area de redes, su talento en administrar la seguridad de las mismas es excelente. Y es caracterizado por su profesionalismo, capacidad de aprender, solucionar problemas y tener la habilidad de hacer siempre un buen ambiente de trabajo."

— **Juan Jose Butron Balboa**, worked directly with Miguel at University Practice Lab (Cisco Systems Sponsored)

"Miguel is always breaking boundaries on what he do, he's continuously developing his edge on his field and every time is sharing his knowledge with his team. He is a highly qualified professional and a person with whom it is pleasant to work with"

— **Alejandro Garza Paredes**, studied with Miguel at University of Buenos Aires

"Mike is a great person, hard working and entrepreneurial individual. He is extremely dedicated on the job in hand with strong knowledge in IT Security. Mike has great talent...client driven and with a clear focus for results."

— **Gerardo Ruiz**, studied with Miguel at Universidad Autónoma de Tamaulipas

[Contact Miguel on LinkedIn](#)