



# Justin M. Wray

<https://www.justinwray.com>

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## SUMMARY

- ⤴ **Executive Leadership** experience for a **Cyber Security** company
- ⤴ Extensive experience in **Network Security** implementation and management
- ⤴ Lead participant in **Penetration Testing** and **Vulnerability Assessment** and **Incident Response**
- ⤴ Have discovered, researched, and disclosed numerous **vulnerabilities** in both networking appliances and operating systems/applications services
- ⤴ Have maintained and developed backend databases, using: **MySQL, SQLite, PostgreSQL, Microsoft SQL Server**, and **Alchemy** in addition to maintaining and developing front-end web applications using **PHP/HTML** and **JavaScript**
- ⤴ Experienced in both **proprietary** and **open source** applications - participating in the development of many open source applications
- ⤴ Long-term **programming** experience with multiple interpreted and compiled languages (**PHP, JavaScript, Perl, Ruby, Python, C/C++**, etc)
- ⤴ Have provided **hardware installation** and support
- ⤴ **Managed** many projects – including in professional capacities, educational settings, and freelance operations
- ⤴ **Team Lead** for **technical teams** and **projects**
- ⤴ **Training** of new employees and developer of training material

## SKILLS

### Certifications Held

- ⤴ **Certified Ethical Hacker**
- ⤴ **Certified Penetration Tester**
- ⤴ **Security+**
- ⤴ **Linux+**
- ⤴ **CNDA**

### Trained for Certifications

- ⤴ **OSCP**
- ⤴ **Cisco (CCNA)**
- ⤴ **Red Hat (RHCE)**
- ⤴ **Network+**
- ⤴ **A+**

### Proficiencies

- ⤴ **Linux (Kernel 2.4 – Current)**
- ⤴ **Windows (95 – Current)**
- ⤴ **Apple macOS**
- ⤴ **BSD & Sun Solaris**
- ⤴ **Microsoft Office**
- ⤴ **Libre/Open Office**

## EXPERIENCE

### WraySec, LLC

September 2015 – Present

Remote, and International

### *Chief Executive Officer*

- ⤴ **Manage** geographically disperse Cyber Security startup
- ⤴ **Provide** executive leadership and company vision
- ⤴ **Engage** with clients for product and service scoping and delivery
- ⤴ **Coordinate** with internal teams for project execution
- ⤴ **Services** include:
  - ⤴ Security Engineering
  - ⤴ Intrusion Detection
  - ⤴ Incident Response
  - ⤴ Vulnerability Assessment
  - ⤴ Penetration Testing
  - ⤴ Red Teaming
  - ⤴ Cyber Exercises and Training
  - ⤴ And Other Cyber Security Services
- ⤴ **Products** include:
  - ⤴ Offensive Security Assessment Tools
  - ⤴ Cyber Exercise and Training Platforms
  - ⤴ Cyber Exercise and Training Curriculum

**ICF International**  
Remote, and Baltimore, MD

February 2016 – September 2017

***Technical Specialist – Offensive and Cloud Security***

- ⤴ **Provided** offensive security expertise
- ⤴ **Managed** project team of engineers and developers
- ⤴ **Directed** project planning, tasking, and management
- ⤴ **Coordinated** across multiple teams and organizations
- ⤴ **Engineered** cyber security, tools, and mechanisms
- ⤴ **Developed** training curriculum for new hires
- ⤴ **Coordinated** and **trained** new hires

**Maryland Defense Force**  
Baltimore, MD – Washington, D.C. areas

May 2013 – May 2017

***Warrant Officer***

- ⤴ **Perform** Vulnerability Assessments and Penetration Testing
- ⤴ **Provide** Cyber Security Training
- ⤴ **Support** Maryland: Defense Force, Army National Guard, and Air National Guard

**Axxum Technologies**  
Remote, and the Washington, D.C. areas

May 2015 – February 2016

***Penetration Testing Manager***

- ⤴ **Manage** a remote penetration testing and vulnerability assessment team
- ⤴ **Direct** project planning, tasking, and management
- ⤴ **Coordinate** with client for engagement scoping and delivery
- ⤴ **Develop** internal security policies and procedures
- ⤴ **Liaison** with internal teams for vulnerability management
- ⤴ **Deliver** weekly and monthly reports and briefings for executive leadership
- ⤴ **Perform** threat emulation during assessments (red team)
- ⤴ **Develop** training curriculum for new hires
- ⤴ **Coordinate** and **train** new hires

**Freelance/Consulting**  
Maryland, Pennsylvania, and Virginia Areas

June 2002 – September 2015

- ⤴ **Implement** and **design** security solutions
- ⤴ **Test** and **audit** client environments
- ⤴ Perform **incident response** and continued **security monitoring**
- ⤴ Design, deploy, and **maintain infrastructure**
- ⤴ **Support** computers, printers, and telecommunication systems

## **iSIGHT Partners**

October 2012 – May 2015

Remote, Lancaster, PA, and the Washington, D.C. areas

### ***Cyber Exercise Engagement Lead*** (January 2014 – May 2015)

- ⤴ **Lead** cyber exercise and training engagements
- ⤴ **Engaged** potential clients and solicited sales
- ⤴ **Managed** customer delivery team of approximately seven individuals
- ⤴ **Coordinated** with clients for exercise planning and delivery
- ⤴ **Planned** and **created** cyber exercise training and scenarios
- ⤴ **Delivered** exercises to cyber warfare operators and industry professionals
- ⤴ **Integrated** real-world products and technologies into exercise environments
- ⤴ **Performed** adversarial activity during engagements (red team)

### ***Cyber Exercise Engineer and Researcher*** (October 2012 – January 2014)

- ⤴ **Engineered** cyber warfare simulation platforms and environments
- ⤴ **Planned** and **created** cyber exercise training and scenarios
- ⤴ **Delivered** exercises to cyber warfare operators and industry professionals
- ⤴ **Coordinated** with clients for exercise planning
- ⤴ **Integrated** real-world products into exercise environments
- ⤴ **Participated** in cyber warfare exercises and games
- ⤴ **Researched** current cyber security threats and technologies
- ⤴ **Developed** offensive automation tools and frameworks
- ⤴ **Maintained, updated, and deployed** large code bases
- ⤴ **Tested** and **audited** current and new projects
- ⤴ **Performed** system and network administration

## **Community College of Baltimore County**

August 2010 – January 2015

Baltimore, MD

### ***Adjunct Professor***

School of Applied and Information Technology, Network Technology

- ⤴ **Teach** multiple information security and networking classes
- ⤴ **Develop** lesson plans and exams
- ⤴ **Deliver** class lectures
- ⤴ **Administer** class laboratory exercises
- ⤴ **Design** semester projects focusing upon real-world applications
- ⤴ **Support, motivate, and assist** students

***Network Security Engineer and Researcher*** (March 2009 – October 2012)

- ⤴ **Managed** project team of engineers and developers
- ⤴ **Directed** project planning, tasking, and management
- ⤴ **Researched** new projects
- ⤴ **Tested** new tools and methodologies
- ⤴ **Developed** intrusion detection systems, tools, and mechanisms
- ⤴ **Planned** and **created** security solutions
- ⤴ **Tested** and **audited** current and new projects
- ⤴ **Maintained, updated,** and **deployed** large code bases
- ⤴ **Integrated solutions** into large production environments
- ⤴ **Engineered** network security plans and goals
- ⤴ **Developed** training curriculum for new hires
- ⤴ **Coordinated** and **trained** new hires

***Senior Network Security Analyst*** (October 2007 – March 2009)

- ⤴ **Real-time analysis** of network traffic to detect intrusions and vulnerabilities
- ⤴ **Coordinated** network incident handling with sites world-wide
- ⤴ **Managed** and **developed** intrusion detection system signature and rule sets
- ⤴ **Released** situation awareness reports
- ⤴ **Developed** intrusion detection systems, tools, and mechanisms
- ⤴ **Tested** new tools and methodologies
- ⤴ **Advised** clients of security risks
- ⤴ **Engineered** network security plans and goals
- ⤴ **Developed** training curriculum for new hires
- ⤴ **Coordinated** and **trained** new hires

**Constellation Energy Group**  
Baltimore, MD

August 2006 – October 2007

***Level II- IT Support Technician***

- ⤴ Provided level II **technical support**
- ⤴ **Reviewed** large scale technical issues
- ⤴ **Liaison** between multiple departments and support center
- ⤴ **Developed** and **maintained** new hire training schedule and information
- ⤴ **Managed** technical projects and supporting teams
- ⤴ **Created** support tools
- ⤴ **Authored documentation** of knowledge bases and training materials
- ⤴ **Maintained** knowledge bases used within support center and multiple support units

**HI-Tech Processing Services**  
Baltimore, MD

August 2005 – August 2006

***Network Administrator / Tech Supervisor / Security Engineer***

- ⤴ **Managed** public PC repair shop
- ⤴ **Developed** processes for new projects and work
- ⤴ Serviced and **supported** internal computers, printers, and phones
- ⤴ **Secured** internal computers, printers, and telecommunication systems
- ⤴ **Evaluated** technologies for implementation throughout the organization
- ⤴ Created and **maintained** multiple databases
- ⤴ **Designed** and developed Intranet site for corporate communications
- ⤴ **Managed** multiple production and public web servers
- ⤴ **Monitored** multiple production and DMZ servers – as well as Firewalls and Network Intrusion Prevention Systems

**EDUCATION**    **Associates of Applied Sciences Degree (A.A.S)**

Community College of Baltimore County, Baltimore, MD

**Relevant Coursework:**

- ⤴ Data Communications
- ⤴ Advanced LAN Administration
- ⤴ PC Troubleshooting / PC Repair
- ⤴ Linux Administration
- ⤴ Network Security & Independent Project on Security Engineering
- ⤴ Network Defense/Counter-Measures
- ⤴ Introduction to Programming
- ⤴ Object-Oriented Programming
- ⤴ C/C++

**Diploma, Computer Science**

Sparrows Point High School, Baltimore, MD

**Relevant Achievements:**

- ⤴ Completed a technical diploma program in Computer Science
- ⤴ Work-Study program, worked full-time while attending high-school
- ⤴ Dual-Enrollment program, attended college and high-school concurrently
- ⤴ Assisted in the repair and maintenance of school computer systems

**FEATS**

- ⤴ **Discovered, disclosed,** and reported numerous **security vulnerabilities**
- ⤴ Discovered multiple **undisclosed vulnerabilities**
- ⤴ Involved in **development** of multiple projects – including TeamSploit, Unsploitable, CoSign Coin, Metasploit, Lak-IPS/Snort, BackTrack, and PBNJ
- ⤴ **Contributed** to information security **curriculum** for colleges
- ⤴ Participate in **improvement** of CyberWatch (collaboration between multiple two-and-four year colleges to standardize information security coursework, degrees, and certifications)
- ⤴ **Developed** information security labs, lectures, and curriculum for two-and-four year colleges
- ⤴ Served as **guest lecturer** in many college-level information security courses
- ⤴ **Presented** numerous speeches to the likes of the **National Science Foundation** and **Military Cyber Security Conference**
- ⤴ Participate on both **offensive and defensive teams** in cyber exercises and competitions

**AWARDS**

- Technical Lead** 2014 – 2017  
**Maryland National Guard Cyber Defense Team**  
Baltimore-Washington Metropolitan Area, U.S.
- 10 Years Participation (Blue, Red, and White-Cell)** 2015  
**Mid-Atlantic Collegiate Cyber Defense Competition**  
Mid-Atlantic Areas, U.S.
- White-Cell and Challenge Creator** 2012 – 2015  
**National Cyber League**  
United States
- Gold Team and Exercise Operations** 2012 – 2015  
**Mid-Atlantic Collegiate Cyber Defense Competition**  
Mid-Atlantic Areas, U.S.
- 1<sup>st</sup> Place – World Championship** 2013  
**Symantec Cyber Readiness Challenge**  
Las Vegas, NV
- 1<sup>st</sup> Place – Championship Qualifications** 2013  
**Symantec Cyber Readiness Challenge**  
Dallas, TX

<b>3<sup>rd</sup> Place</b> <b>MITRE-STEM CTF</b> Adelphi, MD	2012
<b>2<sup>nd</sup> Place – International Champions</b> <b>Global Cyberlympics</b> Chantilly, VA	2011 – 2012
<b>1<sup>st</sup> Place – North American Champions</b> <b>Global Cyberlympics</b> Miami, FL	2011 – 2012
<b>Team Captain</b> <b>Team ICF, CTF Team</b> International	2009 – 2012
<b>Red Cell Member (1<sup>st</sup> Place, 2010-2012)</b> <b>Mid-Atlantic Collegiate Cyber Defense Competition</b> Mid-Atlantic Areas, U.S.	2009 – 2012
<b>1<sup>st</sup> Place – Champion</b> <b>Maryland Cyber Challenge and Conference</b> Baltimore, MD	2011
<b>2<sup>nd</sup> Place, Silver Medal – Red-Cell</b> <b>Cyber Dawn Exercise</b> Haymarket, VA	2009
<b>1<sup>st</sup> Place, Gold Medal – Blue-Cell</b> <b>Mid-Atlantic Collegiate Cyber Defense Competition</b> Lancaster, PA	2008
<b>Team Captain</b> <b>Community College of Baltimore County, CTF Team</b> Mid-Atlantic Areas, U.S.	2006 – 2008
<b>2<sup>nd</sup> Place, Silver Medal – Blue-Cell</b> <b>Mid-Atlantic Collegiate Cyber Defense Competition</b> Hunt Valley, MD	2007
<b>3<sup>rd</sup> Place, Bronze Medal – Blue-Cell</b> <b>Mid-Atlantic Collegiate Cyber Defense Competition</b> Lancaster, PA	2006