

# Christopher Horn

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http://chrishorn.info

## Summary

A leader in product management with 15 years of experience in software systems and new product development. Dynamic problem solver with a keen strategic eye and entrepreneurial spirit. Broad experience successfully applying technology to meet the needs of government, non-profit, military, and commercial organizations. Seeking a small-ish, diverse, high-performing team with whom to have some fun and kick ass.

## Education

Carnegie Mellon University  
30 units toward Master of  
Human-Computer Interaction

Brown University  
Bachelor of Arts in Economics  
2001

## Recent

### Researcher

Secure Decisions

MAY 2010 – OCT 2013

Oversee and perform cybersecurity research & development

- Manage a five company, six team effort to build a unified threat management system
- Plan, conduct, and publish primary research of application security program mgmt.
- Manage research to discover the human elements that contribute to software security
- Technical project management, data analysis, machine learning, visualization

### Sr. Product Manager, Product Manager

CommerceHub

NOV 2013 – PRESENT

Lead product development team & drive process improvements in a rapidly growing company

- Reimagined functionality behind one of core product's key value propositions
- Develop & champion product development process to help product management, marketing, engineering, and QA staff successfully apply agile, evidence-based learning practices
- Lead go to market efforts: market positioning, sales & support training, drive adoption through presentations, video production, and direct support
- Collaboratively developed business case eval. framework to improve portfolio management
- Thought leadership, team leadership, requirements, market analysis, clear communication

### Designer & Researcher

Secure Decisions

MAY 2010 – OCT 2013

Lead interaction designer and principal design resource within company of 50

- Future product research, ideation, and design – including hardware & software
- Designed architecture and user interface for next-generation Naval cyber defense system
- Active in business development: concepts, writing, graphics, and work breakdown
- Developed company-wide design and user testing guidance; trained staff on its application
- Use cases, requirements discovery, wireframe and workflow design, web-based prototyping

## Past

### Interaction Designer

MAYA Design

MAY 2007 – APR 2010

Design products and services, with a focus on complex, information-rich systems

- Sole interaction designer for web-based logistics tool that enabled client to earn the only Army 2008 Secretary of Defense Performance Based Logistics Award
- Kiosk design saved client \$300k and won 'Best in Show' at KioskCom Expo
- Successfully managed \$30k to \$550k+ projects
- Active in business development and proposal writing; helped win \$600k+
- Taught human-centered design training course to engineering staff of client firms

### Co-Founder

Brring!

JAN 2006 – NOV 2008

Worked all aspects of service creation while bootstrapping the company

- Wrote patent, designed logo, wrote & recorded phone tree, wrote backend code
- Co-designed internal policies and helped grow service to 16,000+ subscribers

## Skills

Human-centered design  
New product development  
Product management  
Managing development teams  
Collaborative leadership

Systems engineering  
Research (including modeling)  
Experimental design  
Physical & digital prototyping  
Creative & strategic thinking

## Tools

|                  |                      |                  |
|------------------|----------------------|------------------|
| Microsoft Office | AWS cloud            | HTML5/CSS/JS     |
| Adobe CC         | Octave               | Python/Perl      |
| HipChat/Slack    | Stata/R              | SQL/DataWrangler |
| JIRA             |                      |                  |
| Git/Hg/SVN/CVS   | GNU/Linux            |                  |
| Paper & pencil   | Mac OS 9 & 10        |                  |
| Many others      | Windows NT/2000/XP/7 |                  |

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## Book Chapters

Valencia, Valorie S., and Christopher Horn. "Biometrics Liveness Testing." In *Biometrics*, by John D. Woodward Jr, Nicholas M. Orlans, and Peter T. Higgins. Berkeley, CA: McGraw-Hill Osborne Media, 2003.

## Papers & Reports

Horn, Christopher, and Anita D'Amico. "Measuring Application Security." *Proceedings of the 4th International Conference on Human Factors in Cybersecurity Forthcoming* (July 21, 2018).

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<https://doi.org/10.1145/2016904.2016909>.

Buchanan, Laurin, Michael Rosenstein, and Christopher Horn. "Deucalion: A Navy Common Operational Security Decision System (Office of Naval Research/Naval Research Lab, Contract #N00014-11-D-0029/Order 0001)." Final Technical Report. Northport, NY: Secure Decisions, 2011.

Buchanan, Laurin, Paul Walczak, Anita D'Amico, and Christopher Horn. "NetDemon: Naval Network Defense Decision Making Model (Office of Naval Research, Contract #N00014-10-C-0374)." Final Technical Report. Northport, NY: Secure Decisions, 2011.

D'Amico, Anita, Christina Verderosa, Christopher Horn, and Timothy Imhof. "Integrating Physical and Cyber Security Resources to Detect Wireless Threats to Critical Infrastructure." In *Technologies for Homeland Security (HST), 2011 IEEE International Conference On*, 494–500, 2011.

Horn, Christopher, Stuart Roth, and Daniel Szecket. "User-Centered Logistics Management Tools Analysis: An Analysis of GD Current Tools and Practices for Supporting Logistics Management Processes, and MAYA Design's Recommendations for the Future." Pittsburgh, PA: MAYA Design, December 2007.

Gonzales, Daniel, Angel Martinez, Louis Moore, Timothy Bonds, Christopher Horn, John DeRiggi, Ricky Radaelli-Sanchez, and David Nealy. "Estimating Theater Level Situation Awareness for Campaign Level Force Analysis." Arlington, VA, 2007.

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Gonzales, Daniel, Christopher Horn, and Thomas Sullivan. "Grid Computing at RAND." Arlington, VA: RAND Corporation, 2005.

Gonzales, Daniel, Louis Moore, Lance Menthe, Paul Elrick, Christopher Horn, Christopher Pernin, Michael Tseng, and Ari Houser. "Measuring Essential Communications, Fusion, Intelligence, Surveillance, and Reconnaissance Characteristics of the Army Future Combat Systems (FCS) Milestone B." Monograph. Arlington, VA: RAND Corporation, December 2004.

Gonzales, Daniel, Louis Moore, Lance Menthe, Paul Elrick, Christopher Horn, Michael Tseng, and Ari Houser. "Applying New Analysis Methods to Army Future Force C3-ISR Issues: Focus on Future Combat System (FCS) Milestone B." Arlington, VA: RAND Corporation, May 2004.

Harris, Carol, Lawrence D. Nadel, Linda J. Nicholas, and Christopher Horn. "Impact of Biometrically Encoded Driver Licenses on Law Enforcement (Department of Justice, Contract #2001-LT-BX-K002, Project #0401355B)." McLean, VA: Mitretek Systems, December 2003.

Horn, Christopher, and Donald P. D'Amato. "JPEG 2000 Investigation Findings (Department of State, Contract #S-OPRAQ-98-D-0029, Delivery Order S-LMAQM-03-F-3952)." McLean, VA: Mitretek Systems, December 2003.

— — —. "Report on Activities at the M1-Biometrics Meeting 18-22 August 2003 (Department of State, Contract #S-OPRAQ-98-D-0029, Delivery Order S-LMAQM-03-F-3074)." McLean, VA: Mitretek Systems, October 2003.

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## Papers & Reports, cont.

Horn, Christopher, and Donald P. D'Amato. "Final Report on Image Quality Management for Passport Color Images (Deliverable h) (Contract #S-OPRAQ-98-D-0029, Delivery Order SLMAQM-01-F-4503)." McLean, VA: Mitretek Systems, September 2003.

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Gonzales, Daniel, Louis Moore, Paul Elrick, Lance Menthe, Christopher Pernin, Thomas Sullivan, and Christopher Horn. "New Approaches to Communications Network and Intelligence, Surveillance, and Reconnaissance Analysis." Arlington, VA: RAND Corporation, June 2003.

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Gonzales, Daniel, Christopher Horn, Brent Alkire, and Louis Moore. "Analysis Methods for Assessing the Utility of Space Radar for Future Army Forces." Draft Research Report. Arlington, VA: RAND Corporation, 2003.

Woodward Jr, John D., Christopher Horn, Julius Gatune, and Aryn Thomas. "Biometrics: A Look at Facial Recognition." Arlington, VA: RAND Corporation, August 2002.

Woodward Jr, John D., Mark Gabriele, Katherine W. Webb, and Christopher Horn. "Review of Department of Defense & Federal Biometric System Protection Profile for Medium Robustness Environments." Arlington, VA: RAND Corporation, July 2002.

Woodward Jr, John D., and Christopher Horn. "Biometrics for Lawyers." *Privacy & Security Law*, May 2002.

Ausink, John, Robert Clemence, Robert Howe, Sheila Murray, Christopher Horn, and John D. Winkler. "An Optimization Approach to Workforce Planning for the Information Technology Field (U.S. Army, Contract #DASW01-01-C-0003)." Monograph Report. Arlington, VA: RAND Corporation, 2002.

Schoenbaum, Michael, Katherine M. Harris, Gary Cecchine, Ana Suarez, Christopher Horn, and C. Ross Anthony. "Final Evaluation Report for the TRICARE Senior Supplement Demonstration Program." Product Page, 2002.

Woodward Jr, John D., and Christopher Horn. "Facial Recognition for Identifying Terrorist Threats (FRITT)." Arlington, VA: RAND Corporation, October 2001.

— — —. "Focus Group Contribution: Biometrics for Surveillance and Detection." Arlington, VA: RAND Corporation, October 2001.

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Schoenbaum, Michael, Katherine M. Harris, Gary Cecchine, Ana Suarez, Christopher Horn, and C. Ross Anthony. "Final Evaluation Report for the TRICARE Senior Supplement Demonstration Program." Product Page, 2002.

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Horn, Christopher, Brent Bell, John D. Woodward Jr, Katherine W. Webb, Brian Jackson, and Kristina Larson. "Review of Testing and Evaluation Documents Related to Biometrics." Arlington, VA: RAND Corporation, July 2001.

## Presentations

Horn, Christopher. "Application Security Threat Attack Modeling." presented at the 2017 Cyber Security R&D Showcase & Technical Workshop, Washington DC, USA, July 12, 2017.

Horn, Christopher, and Mallory Breen. "New OrderStream Capabilities – Performance Measurement and Automated Supplier Onboarding." Webinar, Albany, NY, May 11, 2016. <https://www.youtube.com/watch?v=t7ISfzZCmR0>.

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"Human-Centered Design Training Course." Pittsburgh, PA, Scottsdale, AZ, Honolulu, HI, Multiple sessions 2007-2009.

Horn, Christopher. "Grid Computing at RAND: An Introduction to the Technology and Survey of Potential Demand." presented at the Research Programming Group Meeting, Santa Monica, CA, June 29, 2005.

Horn, Christopher. "Emerging Imaging Technologies and Standards: JPEG 2000." presented at the Department of State Image Quality Improvement Program (IQIP) Conference, Falls Church, VA, December 3, 2003.

## Interviewed

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