Seamus Tuohy

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Relevant Professional Experience

Prudent Innovation
Washington, DC USA

8/16–Current **Principal Consultant**.

Provides technical and information security guidance, development, research, and programmatic support to organizations working in complex or hostile environments.
- Conduct training's for international CSOs that provides motivation and a framework for them to think critically and holistically about the risks their organizations encounter and reasonable ways to mitigate these risks for current and new program designs.
- Conduct training's for international donors on how to read, understand, and identify gaps in risk assessments submitted by possible and current grantees.

Internews
Washington, DC USA

2/15–8/16 **Senior Technologist and Risk Advisor**.

Worked closely with the Internews' Operational Security program, IT department, and organization-wide program teams to develop processes for digital security risk assessment, security controls and audits, information classification and mitigating risk through digital security risk analysis. In addition provided the Internet & Communications Technology (ICT) Programs Team and partners with technical support and guidance to expand the use and improve the quality of digital security software products, platforms, and practices.
- Served as a senior expert and consultant to top management officials and partners by investigating the viability of new and emerging technologies and technical approaches as well methods which would allow these technologies to be safely deployed and used.
- Identified key information security and internet freedom topics, design experiments for evaluating and/or measuring them, and analyze technical data for use in investigations of emerging, critical, and unknown technologies using web crawlers & scrapers, network anomaly measurement, data analysis and/or visualization.
- Worked with development, programs, and operational security teams, to develop and implement a process for creating, maintaining, and updating audit-able risk analysis summaries that accurately reflect current, more comprehensive risk assessments of the risks our programs, personnel, partners, and beneficiaries faced.
- Designed and developed CoPilot; a wireless hotspot for digital security trainers that provides an easy to use web interface for simulating custom censorship environments during trainings.

5/14–2/15 **Technical Adviser**.
Provided ICT Programs Team and partners with technical support and guidance to expand the use and improve the quality of digital security software products and platforms, working closely with technical and program teams in the field of international development and global human rights.
- One of the chief architects of the SAFETAG digital security risk assessment system. Combining traditional risk assessment methodologies with technical penetration testing tools and methods, this system allows for rapid digital security assessments for low-income, at-risk civil society groups and human rights organizations. SAFETAG is a curricula, a methodology, and a framework for security auditors working in the human rights space.
- Conduct international trainings for technologists on the SAFETAG framework and methodology as well as on a variety of penetration testing and forensic skills & provide supervision, technical support, and guidance to SAFETAG auditors during in-region audits of civil society organizations.
- Utilizes state-of-the-art technology to identify new approaches to cybersecurity, censorship circumvention, and data analytics and to leverage technology and provide technology oversight in Internews' programming.

The Open Technology Institute at the New America Foundation
Washington, DC USA

1/13–5/14 **Associate Technologist**.
Developer and project coordinator for the Commotion Wireless project; assisted with development and research in the areas of interface design, usability, outreach & education, technical analysis, and threat-modeling.
- Led security architecture and threat model overview for Commotion Wireless which included managing security contractors, researching local and architectural threats, identifying research and development tasks, and documenting the outputs.
- Served as a resource for technical knowledge, research, and assistance to OTI's public policy staff with a special focus on privacy, security, and network infrastructure issues.
- Conducted an extensive usability review that contributed to a complete overhaul of the Commotion user interface, resulting in user interfaces that were easier to use, more powerful, and more closely integrated with the rest of the software.
- Lead the design and implementation of the Commotion Setup Wizard and administrative configuration interfaces for Commotion Wireless mesh-network nodes.

3/12–01/13 **Technical Program Associate**.
Developer for the Commotion Wireless project; researched and evaluated technical solutions, documented those solutions for broader use, and identified key outreach opportunities.
- Worked with a team to quickly identify the eligibility, applicability, and requirements of development opportunities and, if deemed worth-while, create clear tailored proposals built upon existing organizational needs and capacity.
- Develop comprehensive results frameworks, performance indicators, deliverables, time frames, and monitoring frameworks for impact assessment for communications technology projects where protecting user privacy and anonymity was essential.
- Designed, scripted, and presented mesh networking demonstrations for individuals, small groups, and conferences.
- Created high quality instructional presentations and lectures to articulate the technical capabilities and human implications of various technologies.

Education

2006–2008	**M.S. Conflict Analysis and Resolution**, *George Mason University*, VA USA.
Thesis	*Civil Obedience: The Unintended Consequences of Structural Primacy on Police Misconduct*
	An analysis of how organizational structures can unintentionally re-enforce the growth of police officer corruption and misconduct.
2002–2008	**B.A, Communications**, *San Francisco State University*, CA USA.

Talks & Workshops

Workshop	**Sourcing Threat Intelligence**
	Rights Con - March 2016
	Brought together human rights defenders and technologists to share the organizations, mailing lists, websites, wikis, news feeds, data sets, etc. that we use to get up to date information or analysis about human rights & Internet freedom issues and incidents.
Talk	**What does re-usable & updatable content look like?**
	The Internet Freedom Festival - March 2016
	A presentation exploring what re-usable & updatable content looks like and what projects currently exist to help projects make their content more accessible.
Panel	**Navigating Against Cyber Attacks: Nonprofits & Data Security**
	Forum One - January 2016
	A panel discussion with data security experts to share anecdotes, best practices, and approaches to addressing the threat of data breaches to nonprofits.
Panel	**InfoSec in International Development**
	Technology in International Development Security Operations - Sept 2015
	A panel discussion with four IT security professionals discussing the biggest issues surrounding digital and information security for international development organizations.
Talk	**Checking in on Organizational Security: SAFETAG**
	Circumvention Technology Festival - March 2015
	Presented on the SAFETAG Security Auditing Framework and Evaluation Template for Advocacy Groups and discussed larger issues in supporting organizations to improve their security.
Workshop	**Know Your Security Risks, Control Your Data**
	Online News Association 2014 Conference - Sept 2014
	Guide attendees in an exploration of the daily activities that could put their stories or sources at risk, discuss the risks involved, and provide targeted technical training on tools they can use to address those risks.
Talk	**How the Internet Sees You: An Illustrated Guide**
	New America Foundation - Feb 2014
	An guided tour of the audiences online digital fingerprint: the trail of uniquely identifying data that users of computers and smart devices generate when accessing and navigating the internet.

Workshop **Journalism Security Workshop**
Tow Center for Digital Journalism - Nov 2013
Provided participants with an integrated overview of how comprehensive digital and physical security practices both support and enhance journalism.

Workshop **Location Versus Locality: Building Applications for Neighborhood Mesh Networks**
The International Summit for Community Wireless Networks - Oct 2013
A presentation for technical and non-technical audiences who are interested in creating and hosting local applications for their community wireless networks.

Panel **US Power in a DIY World**
Social Media Week - Feb 2013
A panel discussion exploring the role that individuals can play in building the tools of modern governing, how technology leveraging participation is building this new public space, and if civic technology be able to bridge the gap between demands for inclusion and today's mostly obsolete systems.