

## Hunter Hudson – hunter@hunterhudson.com

### Experience

#### Head of Software

02/2016 - Present

Northrop Grumman, Aerospace Sector

- Accountable for 490M and Responsible for 160M of annual contract execution.
- Leader of 1,500 software engineers in Aerospace Sector delivering across a large diverse portfolio of manned aircraft (including B-2, B-21, E-2), unmanned aircraft (including Globalhawk, Triton, NATO AGS, FireScout, Fire Bird, X-47B), spacecraft (including James Webb Space Telescope, AEHF, GPS III, SIBERS), Directed Energy systems (including ALMDS), Missile Systems (including Ground Based Strategic Deterrent), and many research engagements (including DARPA, AFRL).
- Accountable for entire scope of the software problem domain, including design, development, deployment, and operations of systems that span sensor processing, data fusion, signal intelligence, ground control, flight control, mission control, advanced human decision aids, and advanced mission automation.
- Distributed Autonomy Responsive Control
- DARPA SafeDocs
- DARPA GAPS
- Accountable for multiple proposal activities. 1's to 100's millions in both fixed price and time and materials contracts.
- Successfully moved major aerospace programs from waterfall to modern agile engineering process and tools.
- Built Cyber Security, Cognitive Autonomy, Engineering Fundamentals communities of practice.
- Multi-domain Command and Control. Integration of Space, Airspace, and Cyberspace.

#### Senior Manager of Software Development

05/2014 - 02/2016

Amazon, AWS EC2 Networking and Prime Air UAV teams

- Rationalized the AWS EC2 networking control plane architecture of 6 overlapping distributed systems into a simpler set of shared services.
- Lead team through re-write of networking dataplane achieving performance gains that avoided a \$64 million network scaling project.
- Lead Prime Air UAV platform software effort.

#### Senior Director of Product Development

04/2012 - 05/2014

F5 Networks, Seattle, WA

- Accountable for establishing and delivering on the F5 cloud services and manageability strategy, launching a new cloud management product family: BIG-IQ
- Established and championed a new customer based planning, UX design, engineering, and business focus inside F5 Networks.
- Established and lead the F5 Networks software engineering office in Bellevue.

#### Architect

2011 - 2012

Microsoft Trustworthy Computing, Redmond, WA

- Established the Microsoft Cloud Security Strategy.

#### Director of Engineering

2010 - 2011

Microsoft Applied Robotics Solutions, Redmond, WA

- Lead the application of machine learning to computer vision based mobile robot navigation. Included active sensing of the environment, automated learning feedback loops, and simulated and physical applications.
- Accountable for all Engineering Fundamentals of Security, Performance, Monitoring, Reliability, and Testing for various robotic platforms, web services, and mobile clients.

**Director of Development and Founding Member** 2006 - 2010

Microsoft Windows Azure, Redmond, WA

- Founded the Windows Azure Cloud Management Team and scaled team and services to a global presence.
- Engineering Fundamentals contributions spanned continuous integration, security, performance, reliability, change management, configuration management, root cause analysis, disaster recovery, and privacy.

**Development Manager** 2004 - 2006

Microsoft Windows Core OS Division, Redmond, WA

- Established and deployed Quality Gates across Windows Division.
- Classified the root causes behind all past MSRC security issues and set future security investment areas.
- Lead 55 person virtual-team effort to make 150,000 automated and 100,000 manual defensive code changes to the Windows codebase.
- Awarded Microsoft Chairman's Award for Engineering Excellence for the industry wide impact of this work.

**Research Software Design Engineering Lead** 2003 - 2004

Microsoft Programmer Productivity Research Center, Redmond, WA

- Pioneered machine automated analysis of Windows application crash and hang reports. Fixed 50% of the volume of the hangs in IE, Explorer, Outlook, Outlook Express, PowerPoint, and Frontpage.

**Software Design Engineer in Test** 1999 - 2003

Microsoft Windows Shell Team, Redmond, WA

- Development and deployment of static code analysis pattern recognition tools.

**CEO and Founder** 1997 - 1999

Hunter Hudson Consulting, Seattle, WA

- Machine learning analysis of players' performances in NFL hockey games.

**Research Software Design Engineer** 1996 - 1998

Quest Integrated, Inc., Seattle, WA

- Developed the world's leading thermal analysis microscope.

**Research Assistant** 1995 - 1996

Dr. Haralick at University of Washington, Seattle, WA

- Computer vision based inspection systems.

**Biomedical Engineering Intern** 1993 - 1994

Vanderbilt Anesthesiology Dept, Nashville, TN

**Education** **MSEE, Electrical Engineering**, Computer Vision Based Inspection Systems 1997  
University of Washington, Seattle, WA

**BE, Electrical Engineering and Biomedical Engineering** 1995

Vanderbilt University, Nashville, TN