Howard Powell

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EDUCATION

CIO Leadership Academy — SUNY SAIL Institute
BA - Astronomy — University of Virginia

SKILLS

Strategic Vision | Project Management | IPv6
High Performance Computing | System Administration | IT Budget Planning

WORK EXPERIENCE

Director of Information Technology 2021 - 2024
Lighthouse Instruments

- Owner and primary contact for the IT infrastructure, virtual and physical servers, cloud infrastructure and client computers including design, maintenance and ongoing security updates.
- Developed and maintained VMWare ESXi, Azure, Digital Ocean and onsite systems including backups.
- Managed direct reports, IT consultants and vendors to meet goals and needs of the company.

Technical Director of Research and HPC 2016 - 2021
Colgate University

- Charged to launch and lead a new Research Computing support group. Responsibilities include creating and maintaining budget projections for research computing hardware and infrastructure.
- Focus on building bridges with researchers to better understand their needs and trends in research, and work with other IT personnel to develop the skills and technology to make that research possible.
- Co-chaired the Campus Information Security Matrix Team and led an NIST 800-171 security assessment of Research Computing.

System Administrator 2012 - 2016
Lighthouse Instruments

- Responsible for the design and maintenance of the computer network and infrastructure for offices in Charlottesville, VA and Amsterdam, NL.

System Administrator 2012
MusicToday

- Reverse-engineered with zero downtime a LAMP ticketing platform that all documentation, including passwords, had been lost.

Unix Computer Administrator 2002 - 2012
Astronomy Department, University of Virginia

- Provided Tier 3 network engineering and HPC support to an academic and research oriented department.

VOLUNTEER WORK

Virginia Renaissance Faire 2024-2025

- Worked as Project Manager on purchasing, permitting, and developing a new Ren Faire Property.
- Worked as a Green Knight and focused on support and operations directly with the Vendor Coordinator and General Manager.

PUBLICATIONS AND PRESENTATIONS

Powell, H. (2011). How to Build a Beowulf HPC System Using the FedoraLiveCD Project. Linux Journal, issue 208, pages 64-68.

Powell, H. (2012). ZFS and Btrfs: A Quick Introduction to Modern Filesystems. Linux Journal, issue 218, pages 104-111.

Powell, H. (2017). Next-gen Filesystems Overview, ZFS, BtrFS and ReFS. Session presented at NYSERNet Conference, Syracuse NY.