Howard Powell

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EDUCATION

CIO Leadership Academy	SUNY SAIL Institute	Spring 2019
BA - Astronomy	University of Virginia	1998 - 2005

SKILLS

User Support	Project Management	Devops
High Performance Computing	System Administration	Budget Planning

WORK EXPERIENCE

Director of Information Technology   2021 - 2024
Lighthouse Instruments

- Bridged Software Development, Science, Research and Development, Administrative and Manufacturing groups to make sure all IT needs and assets were allocated and aligned.
- Continually adapted and integrated strategic cloud resources (monitoring, SaaS, storage and backups) into the legacy network environment to reduce costs, increase reliability, and increase security.
- Developed policies for AI usage, remote work, and day-to-day Computer Usage.

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.

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.