

Mathias A. Gibbens

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PROFESSIONAL EXPERIENCE **Sandia National Laboratories**, Albuquerque, New Mexico, USA
Software Engineer **January 2017 to Present**

- Assisted with the development of a next-generation remote sensing ground station
- Modernized and improved essential high-bandwidth archival and indexing system

University of Arizona Department of Computer Science, Tucson, Arizona, USA
Graduate Research Assistant **January 2012 to December 2016**

- Graduate research assistant for Dr. Chris Gniady and Dr. Beichuan Zhang
- Explored applicability of Named Data Networking in environments from embedded devices to data centers

Graduate Student Council Co-Chair **August 2012 to July 2013**
Graduate Teaching Assistant **Fall 2011 & Fall 2016**

- CSC352 *Unix and C Programming*
- CSC345 *Analysis of Discrete Structures*

Bethel University Web Services, Saint Paul, Minnesota USA
Lead Student Developer **August 2008 to July 2011**

PROFESSIONAL CERTIFICATIONS

- Scrum Alliance Certified *ScrumMaster*
- FCC licensed Amateur Radio operator (KØWBG)
- Accredited Volunteer Examiner for the ARRL and Laurel VECs

EDUCATION **The University of Arizona**, Tucson, Arizona USA
M.S., Computer Science, December 2014

- *Summa Cum Laude*
- Research focused on novel network technologies and applications
- Recipient of the University of Arizona Graduate College Fellowship

Bethel University, Saint Paul, Minnesota USA
B.S., Computer Science, May 2011

- *Cum Laude*
- Strong minor in Mathematics
- Participant in Bethel University's Honors Program
- Recipient of Bethel President's and Tozer Foundation academic scholarships

PAPERS AND PRESENTATIONS

- Gibbens, M., Gniady, C., Ye, L., & Zhang, B. (2017). Hadoop on Named Data Networking: Experience and Results. In *Proc. ACM Meas. Anal. Comput. Syst.* ACM.
- Gibbens, M., Gniady, C., & Zhang, B. (2015). Towards Eco-Friendly Home Networking. In *Sustainable Computing: Informatics and Systems*.
- Gibbens, M., Gniady, C., & Zhang, B. (2014, November). Towards Eco-Friendly Home Networking. In *Green Computing Conference (IGCC), 2014 International*. IEEE.

SERVICE AND VOLUNTEER WORK	Treasurer, Duke City Hamfest	February 2019 to Present
	Special Events Coordinator, Amateur Radio Caravan Club	November 2017 to Present
	Volunteer, Albuquerque Pride	April 2017 to Present
	Volunteer, Albuquerque Animal Welfare Department	July 2017 to August 2018
	Election Board Official • <i>Clerk</i> , Pima County, Arizona	2016 Primary & General Elections
	President, Secretary/Treasurer, K7UAZ Amateur Radio Club	May 2015 to January 2017 September 2014 to April 2015
	Volunteer, Southern Arizona AIDS Foundation	May 2015 to December 2016
	Volunteer, Hermitage No-Kill Cat Shelter	July 2012 to January 2017

TECHNICAL CONSULTANT WORK	<ul style="list-style-type: none"> • Bailey Nurseries, Newport, Minnesota • Bethel University Student Association, Saint Paul, Minnesota • Hermitage No-Kill Cat Shelter, Tucson, Arizona • Palace Apartments, Tucson, Arizona • Sodexo Food Services - Bethel University, Saint Paul, Minnesota
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SKILLS AND INTERESTS	<p>Cloud technologies:</p> <ul style="list-style-type: none"> • Amazon AWS • Automation (Jenkins, Puppet, custom frameworks) • Containers (Docker, Helm, Kubernetes, LXC, Minikube) • Micro-services, MapReduce (Hadoop), OpenMPI, distributed computation <p>Linux system administration:</p> <ul style="list-style-type: none"> • Automation & Backups (cron, offline-storage, Puppet, rsync, snapshots, systemd, ZFS/FreeNAS) • Embedded Linux Systems (Arduino, COTS network routers [DD-WRT, OpenWrt, Tomato], RaspberryPi) • Networking (TCP/UDP, VLANs, pfSense, Ubiquiti) • Services (Apache, BIND, Dovecot, LXD, MySQL, Postfix, PostgreSQL) • Software management (CVS, git, hg, SVN) • Software packaging (conan, dpkg, RPM) • System hardening (custom-maintained kernel trees, grsec, SELinux, AppArmor, FIPS 140-2) <p>Programming Languages:</p> <ul style="list-style-type: none"> • Bash, C/C++, Go, Java, Perl, Python, SQL, and others <p>Productivity Applications:</p> <ul style="list-style-type: none"> • \LaTeX (\LATEX, \BIBTEX), Emacs, LibreOffice/OpenOffice, Microsoft Office <p>Free/Open Source Software enthusiast</p>
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References Available Upon Request