

# Open Source @ Oregon State University

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Microsoft Research

Faculty Summit  
**2015**

# About me

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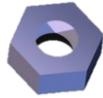
<http://cass.oregonstate.edu>



# The OSU Open Source Lab

Home to over 160 key Open Source projects (<http://osuosl.org>)

- Trusted partner for 10+ years
- Host 160+ projects, including Jenkins, Gentoo, Debian, QEMU, BuildBot, Busybox, Drupal, Apache Software Foundation, Python Software Foundation, Linux Foundation



- 500+ servers, 200+ virtual machines, 450TB downloads/month
- Provide hosting, tech support, development, QA
- Run by 4 full-time staff and 20 students



# Open Source in Experiential Learning

- Real work, external clients, in school, professional mentorship
- 4:1 Student / Mentor ratio
- Services
  - Hosting/DevOps
  - Software Development
  - HW & SW Testing
- Importance of a portfolio



# Open Source in the Classroom

- Open Source as infrastructure
- Open Source as case study
- Open Source as project
  - OpenHatch (<http://www.openhatch.org>)
- Open Source broadens appeal of CS
  - Meaningful projects
  - Humanitarian FOSS project (<http://hfoss.org>)
  - Google Summer of Code
- Need to teach Open Source development



# Open Source in Research

Open Source as infrastructure

Empirical software engineering

- Study Open Source communities & processes
- Open Source communities and projects as proxies

Open Source as “neutral ground” with industry research

Release tools and data under Open Source/CC licenses



# Open Source in Academia

- Land-grant/service mission
- In experiential learning
- In the classroom
- In research



# Open Questions

- What are the barriers to academics teaching Open Source?
- What are the barriers to academics contributing to Open Source?
- What call to action would you have for academics?

Thank you

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