

LibreCorps

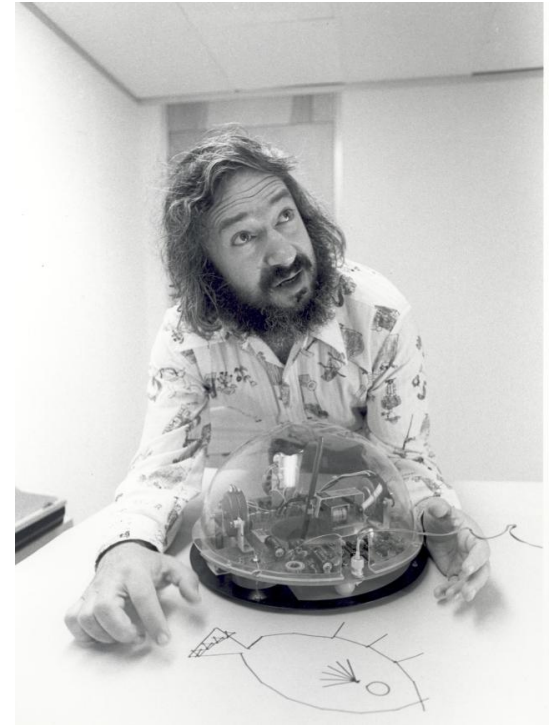
Humanitarian Open Source Student Work Writ Large

Stephen Jacobs

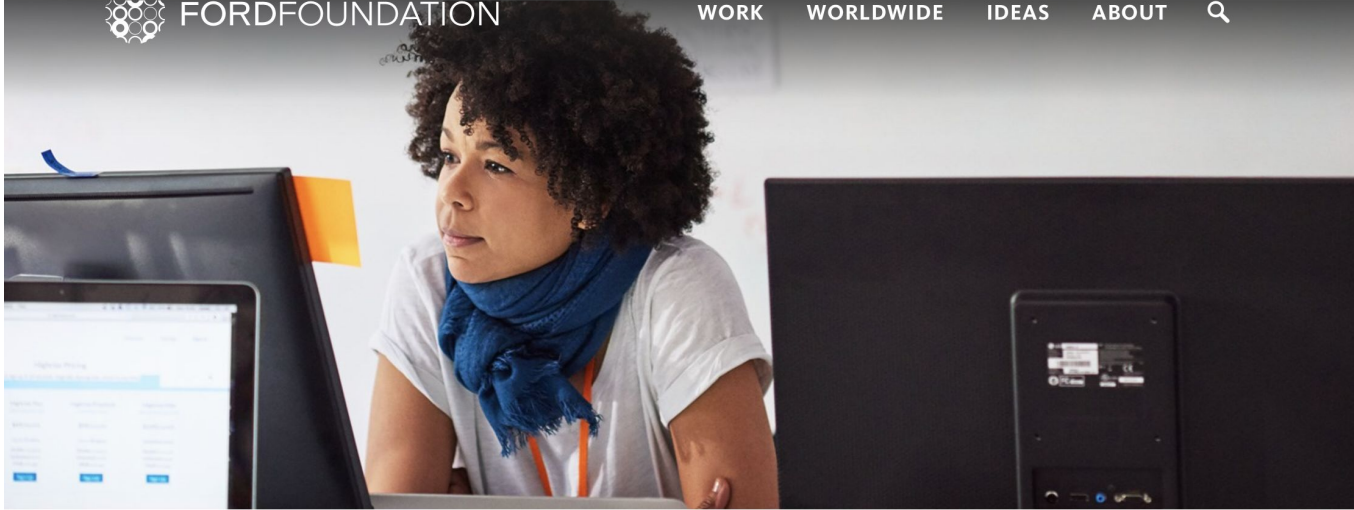
Professor, School of Interactive Games and Media
RIT

Atypical FOSS Professor

- Passed HS Algebra II on the second attempt :-)
- BA in Liberal Arts, MA in Media Studies
- Uncompleted MFA in Computer Animation
- Hired TT to teach Information Design and Architecture for CD-ROM and the WWW
- Original member RIT's Game Design and Development degree teams, MS and BS



My first job in tech, and museums :-)



EQUALS CHANGE BLOG

Announcing \$1.3M in funding for digital infrastructure research

me/world-around-you x +

Not secure | briennakuma/world-around-you/

World Around You



When the **world** first began, there was no land. There was only the **Sea** and the **Sky**. A huge, beautiful Kite (similar to a hawk) flew between them.

Malakas and Maganda

1,345 views | 179 likes | save | share | edit

Massimo V.

Long ago, the Filipinos believed that men and women were created in a bamboo tree. This is a story about how the Philippines and their diverse people appeared. There is a huge bird that splits a giant bamboo, and Malakas and Maganda emerge from the halves.

Genres: Folk, Fable

Tags: #recreation, #firstpersons #philippines #bird #bamboo #folklore #mythology

one to search

My History with FOSS at RIT

- Humanitarian Free and Open Source first offered 2009
- Students request additional courses and eventually a minor, starting 2014
- Multiple hackathons per year
- FOSSTalks
- Co-Ops, required by RIT for graduation

fedora^f



redhat.



fossrit.github.io

9:41 AM Thu Mar 28 83%

fossrit.github.io

RIT Media, Arts, Games, Interaction, and Creativity
MAGIC Center

Home About Announcements Events LibreCorps Projects Get Involved

Fork me on GitHub

Free and Open Source Software @ RIT MAGIC Center

Free and open source software at the Rochester Institute of Technology.

Weekly FOSS Hours held every Wednesday, 5:00PM - 7:00PM in MSS/71-3190 (conference room).

Do

About

Events

LibreCorps

Projects

Get involved

Discuss

Discourse (forums)

Mailing List

Telegram

#rit-foss on Freenode IRC

Student Engagement Life Cycle



Courses generate new contributors and projects

Projects generate scholarship and research

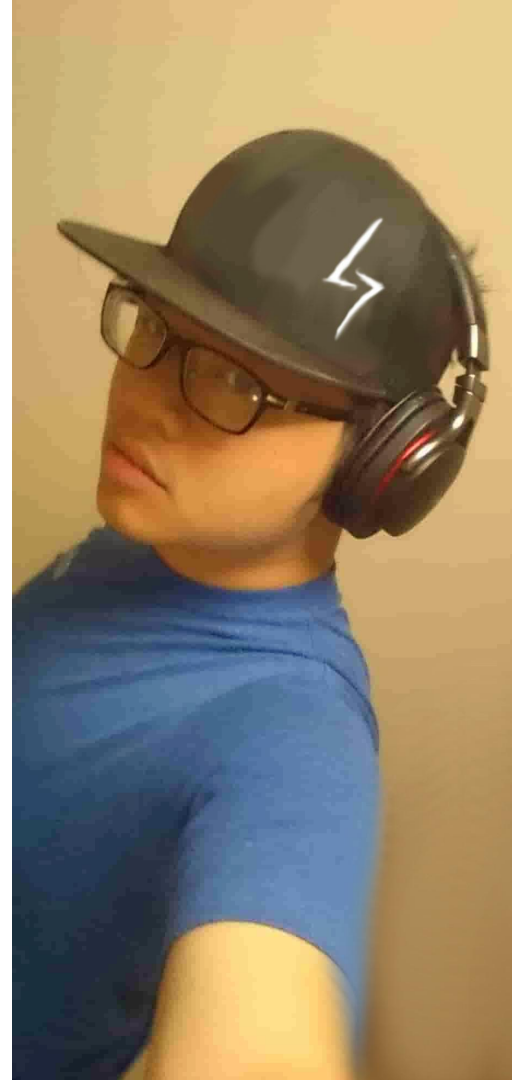
Scholarship leads to internships

Internships generate mentors and TAs

Mentors and TAs generate coursework



FOSS@MAGIC and Advanced FOSS Class Booth in the OSCON Community Pavilion



MEL CHUA
Engineering Edu
PhD-in-progress
Qualitative geek
Hacker

2011

THE GRACE
OF WOMEN

“Alums” of The Green Circle

Engineering, Developer Relations, Social Media, Business Development/Consulting Units, UI/UX

Federal and State Government, Red Hat, Mozilla, Ansible, CoreOS, Tesla, Xerox, Giphy, Oracle, NVIDIA, Amazon, Peace Corps, International Rescue Committee, Microsoft and others.

LibreCorps

1. Adjunct to traditional Co-Op and Placement service
2. On-Site or Remote at RIT
3. Secondary expenses
4. Stipend or Salary

sugarlabs

Champions of Change
WINNING *the* FUTURE ACROSS AMERICA



THE WHITE HOUSE

18F

fedora^f
badges



unicef
INNOVATION



Vertus Charter School

COURAGE, LEADERSHIP, RESPONSIBILITY

UNICEF Innovation, 2012



Luis Rosario and
Duy Nguyen.
Kosovo.

Vaccine
Management,
Smoking Cessation,
Birth Registry,
Innovation Camp

Sugar Labs

Jennifer Kottler, Lead for SkyTime, 2013



Pycon 2015



Brendan Whitfield,
adapted 18F Portal
Technology for
UNICEF Innovation

Matt Soucy,
FOSSBOX Captain

Mike Nolan,
Full-Stack Developer
for Local Civic site
Yeller.

Vertus Charter School e-Nable Program, '15 & '16

Elizabeth Jackson and Akanksha Vishkarwama



FOSS@MAGIC, UNICEF Innovation, Red Hat 2017-18

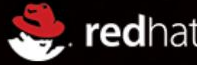


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UNICEF and the magic box: Humanitarian applications of open source

[Alexandra Machado, Red Hat](#), [Stephen Jacobs, RIT](#), [Tom Callaway, Red Hat](#), [Mike Fabricant, UNICEF](#)

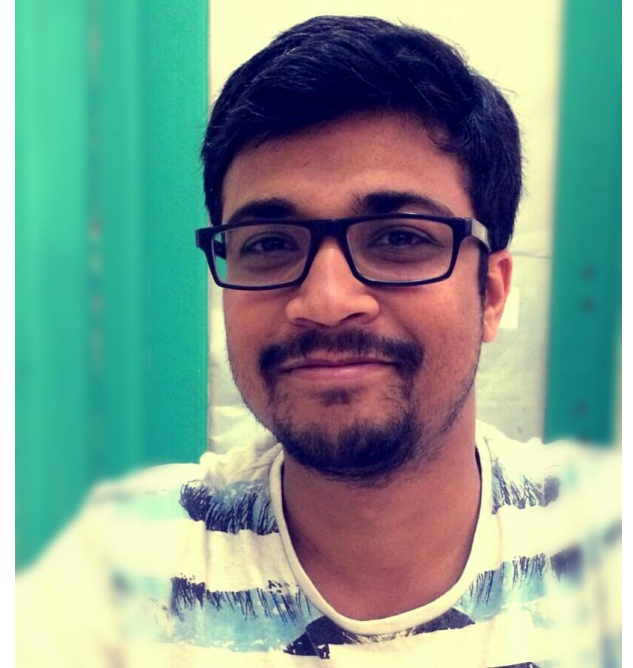
This panel will provide an overview and case study of a partnership between Red Hat, UNICEF Innovation, and the LibreCorps program in RIT's FOSS@MAGIC initiative.

UNICEF Innovation 2017-2018



Justin Flory, FOSS
Community Infrastructure
Support

Pratik Kulkarni, MAGIC
Box Engineering, Zika
Implementation



UNICEF Innovation's 9 Principles of Development

6. Use Open Standards, Open Data, Open Source, and Open Innovation

- Adopt and expand existing open standards.
- Open data and functionalities and expose them in documented APIs where use by a larger community is possible.
- Invest in software as a public good.
- Develop software to be open source by default with the code made available in public repositories **and supported through developer communities.**

UNICEF FOSS Community Infrastructure Co-Op

FOSS Friendly Focus

- GitHub Project Boards
- Read The Docs
- Continuous Integration Tools and Processes
- GitHub Workflow
- Training on the new tech and processes
- OSDC Article

Community Engagement Plan

Goal: A faculty-led, student-driven, HFOSS Consultancy

1. Standing team of students available to projects year-round
2. Allows agility in response to external organization needs
3. Provides stability and continuity with projects and student staffing

Moving Forward

Short-Term:

- Continue with UNICEF Innovation
- Expand grants/gifts/sponsors for year-round efforts

Longer-Term:

- Move from sponsor support to contract
- Add NGOS
- Expand/franchise to other schools

Questions?