Solving World Problems with Open Technologies

Hong Phuc Dang, FOSSASIA
Improve people's lives by sharing open technologies, knowledge and resources and building a sustainable FOSS ecosystem
FOSSASIA Projects and Activities
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- events.fossasia.org
  FOSSASIA Summit
  Open Tech Summit

- codeheat.org
  Coding Programs
  Open Education Academies
Build up your developer profile with FOSSASIA and win awesome prizes! Winners are announced bi-monthly.

750+ participants
750 registered in the Codeheat contest 2019/20 and learnt how to participate in the FOSSASIA developer community.

2000+ merged pull requests
More than 2000 pull requests were merged during last year’s contest. Participants also submitted scrum reports, wrote blog posts and created entirely new projects in the FOSSASIA community.

Global mentors
Mentors are developers, engineers, university students, professors, and generally contributors who love to share and be a part of our open source community. They help creating better software for a better and just world.
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Open Tech Summit

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- code.fossasia.org
  - Free Open Source Software & Hardware Product Development

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FOSSASIA Projects and Activities
Smart Speaker

https://susi.ai
By openly sharing knowledge and technologies we are able to collaborate on a global scale.
We cannot leave our future in the hands of a handful of billionaires, elite scientists, a few monopolies, or wait for our politicians. The problems on our planet are too big. We need everyone to act now.
The open model of sharing is a foundation for a better future where we use globally developed technologies to produce locally, more environmentally friendly and more healthy.
Global Health Problems

The Corona Pandemic
AREEB JAMAL
15.10.1995
28.04.2021

Forever in our hearts and our memory
“... the company had simply refused to release design files, forcing them to reverse-engineer the valve.”
Open Source Solutions Addressing Covid-19

- Applications for contact tracing, social distancing
- Platforms that offer volunteering opportunities, connecting people and resources
- Tools for remote work and education
- Open source hardware that provides equipment to medical services such as ventilators or respirators
What is preventing us from NOT using huge human-exploiting factories in China?

What is preventing us from NOT shipping goods around the world that damage our climate?

What is preventing us from sharing medical knowledge to create vaccines locally?

What is preventing us from sharing schematics of ventilators locally?
Global Environmental Crisis

Climate Change
Central Vietnam Floods: An annual disaster

Photo Credit: VTC News

Photo Credit: Thanh Dat/TTXVN
Will the Mekong Delta be underwater by 2050?
2021 Climate Related Disasters (June and July)

- China floods in Zhengzhou city - at least 25 deaths, 200,000 people being evacuated
- Record rainfall in Western Europe - almost 200 deaths, more than 700 injured and many still missing reported on Monday
- Western North America heatwave - about 500 people have died in Canada
Open Source Solutions for Climate Change

- Software to do climate modeling and evaluation
- Citizen science initiatives
- Applications to reduce your carbon footprints
- Software to measure air pollution
- Applications that change our consumption habits
- Open source tools to collect and analyze climate data
- Ideas for future: solutions to improve power grid infrastructure, open source in the energy industry.
Open Technologies are possible on all layers up to the level of the microchip
Fight Planned Obsolescence
John Deere---the world's largest agricultural machinery maker---told the Copyright Office that farmers don’t own their tractors. Because computer code snakes through the DNA of modern tractors, farmers receive “an implied license for the life of the vehicle to operate the vehicle.”
Call for Action

Everyone can make a difference
Solve World Problems with Open Tech

1. Learn about Open Technologies every day, join the community and contribute.
2. Share your knowledge about the open source collaboration model with anyone around you.
3. Change the mindset of people around you through hands-on open tech projects.
4. Support open source businesses or start your own.
Connect and Work with FOSSASIA

1. Join the **FOSSASIA Summit 2022**. The event is dedicated to open source solutions that tackle world problems.
2. Contribute to FOSSASIA repositories.
3. Get a Pocket Science Lab at [pslab.io](http://pslab.io)
4. Meet us at at **UbuCon Asia** on Sep 25-26 hosted on [eventyay.com](http://eventyay.com).
Thank you!

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@hpdang @fossasia
Resources

- In Memory of Areeb Jamal [youtu.be/XbFCBp-LTXc](youtu.be/XbFCBp-LTXc)
- FOSSASIA Projects [github.com/fossasia](github.com/fossasia)
- Pocket Science Lab (Open Hardware) [pslab.io](pslab.io)
- Environmental Open Source Projects [opensource.com/article/19/4/environment-projects](opensource.com/article/19/4/environment-projects)