

# HACKxFDU Report

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HACKxFDU

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FNST

# About HACKxFDU Event

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## What is HACK × FDU?

- HACKxFDU is a hackathon hosted by Fudan University and created by HACKx.org. Following last year's success, teams of two to five students will work together over a weekend for 36 hours in HACKxFDU 2017 to develop various hacks, learning about new technologies and making friends on the way.
- Student developers could develop anything with focus on Artificial Intelligence, Internet of Things, Fin Tech or Cloud Services. They are also required to use at least one sponsored API/SDKs or hardware.

## Where exactly is HACK × FDU hosting?

- The major event site will be at the ZhiHe Lobby GuangHua Building Fudan University. The address is No. 220 Handan Road, Yangpu District, Shanghai.

## What about other things?

- HACKxFDU is free for all accepted students!
- HACK × FDU 2017 will be available for any kinds of students to apply across China. After submitting your application, organizer will pick 400 best hackers from the application pool to participate in HACK × FDU 2017.
- HACK × FDU 2017 is the perfect time and place to learn and the organizer are looking for the best talents across different majors.

# Company and student developers sign in HACKxFDU

Time: 5:30 - 7:00 PM, Nov 3

Some students came to Fuego table before the event started. They has interest in Fuego Community and the dragonboard-410c.

The most question they asked me is how do you make money. So, in my opinion, most of the students know the community, but don't know much about the community. And the most important is they respect the non-profit organizations.



# HACKxFDU Introduction

Time: 7:15 - 7:20 PM, Nov 3

## Sponsor:(see the picture)

- Fuego is the only community

## Participants:

- 417 students from 79 colleges, 27 provinces  
(There are also students from universities in Hongkong, Macao, USA, Canada and so on)
- Male to female ratio(4:1)
- Senior high school students proportion: 3%
- Undergraduate proportion: 73%
- Graduate student proportion: 23%
- Doctor proportion:1%





# Panel Discussion - "The future of AI and its applications in industries"

Time: 7:20 - 8:00 PM, Nov 3

## Attendees:

- Wang Xiaoyang(The principle of Fudan University's School of Computer Science)
- Hou Yutao(Nvidia)
- Xu Yuncheng(IBM)
- Yang Xiaohong(Goldman Sachs)
- Wang Dapeng(Pingan Tech)
- Zhao Xianhua(SAIC)
- Jiangming(TuSimple)

Topic is "AI and its application in industries".



# Speech and Intro of Autodesk/SAIC/Goldman Sach/Nvidia/IBM/Cisco/TuSimple

Time: 8:00 - 9:20 PM, Nov 3

## What company we focus on?

- TuSimple(Focus on Autonomous Vehicles)
  - Focus on autonomous truck
  - Under road testing
- NVIDIA(Provide smart cars to students)
  - Provide a full set of hardware
  - On-site training to the students
- Fuego(details will be introduced in next page)
  - Talk about the Fuego features.
  - Tell students about how Fuego can do.
  - Tell students about how to use Fuego.



# Speech and Intro of Fuego

Time: 8:56 - 8:59 PM, Nov 3

## About Fuego Presentation:

- Talk to students about community.
- Talk about the Fuego features.
- Tell students about how Fuego can do.
- Tell students about how to use Fuego.

## What have the presentation achieved?

- 1 team has interest in Fuego.
- 4 students have interest in Fuego, although they even don't know much about CI and AT before.



# Dev Time – Part one(Team Building Session)

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Time: 9:30 - 11:00 AM, Nov 3

## **What we want to do at this part is:**

- If some teams have chosen Fuego, we will recommend our new ideas to them.
- If no team has chosen Fuego, we recommend that they could integrate Fuego into their own project.

In fact, we find it's hard to recommend that they could integrate Fuego into their own project. Because most team are focus on AR/Block chain/AI/etc, which cannot integrate Fuego into their own project.

We told the students who chosen to work on Fuego that Fuego has no cool algorithm and interface, it is difficult to win finally at this event if you come here for the prize. But you can learn a lot of knowledge that you never know before.

Finally, 4 students want work on Fuego and there is also one team that can't decide what technology to use at that time.



# Dev Time – Part two(Which Topic To Work On)

Time: 11:00 PM, Nov 3 - 12:00 AM , Nov 4

## Do simple Fuego introduction to students

- Web UI/Run.json/Spec.json/etc
- Sendemail/Interesting tests/Jenkins/etc

## Recommend our plan to them

- adding a simple test(module service check/etc)
- working on a test spec
- finding and reporting bugs in one of the existing tests

## The Finally decided topic is:

- Sendemail to user and improve HTML format
- adding a simple test



# Dev Time – Part three(Work On Fuego)

Time: 12:00 AM, Nov 4 - 11:30 AM(35.5h) , Nov 5

## Fuego Wiki(Installation/Run simple test):

- Helped them to install and run simple test quickly

## Work on Fuego:

- Add sendemail function(No Jenkins Plugins)
- Improved the default HTML report format
- Study how to add a simple test

**Final Project:** <https://www.hackx.org/projects/223>

## What students told me is that:

- Fuego wiki is very useful, but it's not humanized enough for new users. Sometimes, it's hard to find a link that has just been closed if you not familiar with the Fuego wiki structure.





# Initial Exhibition and Selection

Time: 12:30 - 3:30 PM, Nov 5

## Background:

- Select 10 top teams from all 80 teams(completed projects: 70)

It's hard to shown Fuego in a pretty cool way and the point of Fuego is to make people easy to use(The technical difficulty is relatively lower). So, Fuego's team did not enter the top 10 teams.

Let's see what the other teams have done:



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# Final Pitch and Closing Ceremony

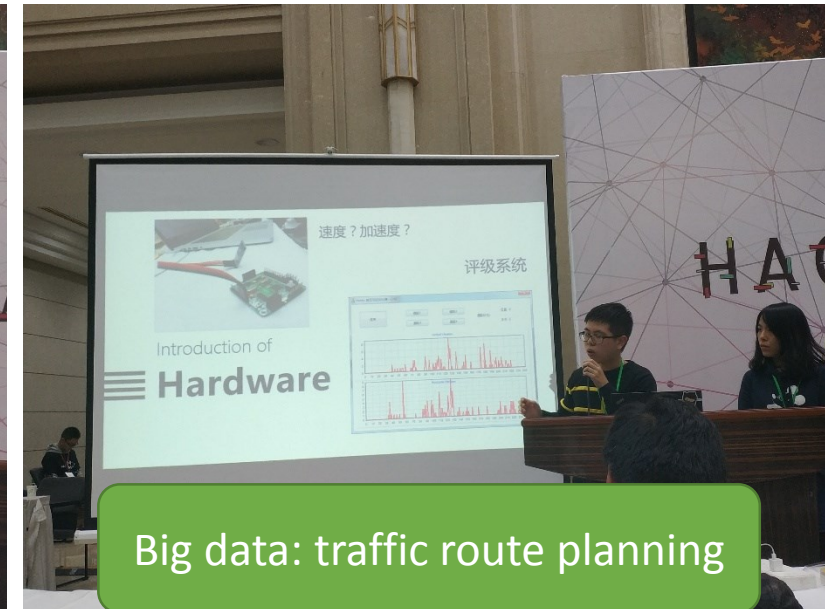
Time: 3:30 - 6:30 PM, Nov 5

## Final Awards:

- Dsharing(Block chain renting/real P2P)
- VR Design House(Autodesk Forge)
- Big Data: Traffic Route Planning(Gyro/Gsensor/etc)

What have the top 3 team done is above.

There are few embedded linux related projects.





# Student Feedback

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## **Background (about students who have chosen Fuego to work on):**

- Most of the students' major is intelligent hardware.
- A small part of them know how to use Linux.
- Most of them are familiar with STM32 programming.  
(It's not good for us to teach them to work on Fuego)

## **Feedback from students:** (not so much feedback from students as I expected)

- Students helped me find the "PER\_JOB\_BUILD" related issue.  
(Students were too shy to send mail.)
- Wiki page is not very suitable for beginners.
- Not familiar with Bitbucket like Github.  
(Most of them familiar with GitHub and wonder why a project has 2 repositories)
- They will try to do embedded linux and try to work on Fuego later.

# Thoughts

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## What about this event for Fuego?

- First of all, this is a competition event, not a technical exchange.
- Then, The purpose of the students participating and the items they want are very clear(AI/VR/Block chain/etc) and there are few sponsors who can only provide hardware.
- Students have interest in Fuego and the other Open Source Community.
- Many students even know a lot of community related knowledge, but they are a user or learner, not a contributor in their mind. This change of mind is difficult, but valuable.
- Fuego wiki should be improved(It's not easy for new guys).
- There are many college students in China. For those graduate students with embedded majors, it is no chance for them to know Fuego and even don't know the existence of Fuego when they are doing works in the laboratory. Those guys should be the focus for us.
- Yes, Fuego needs contributors, but more importantly, it requires users to use, to find problems, to report problems. We hand out flyers and business cards, hoping that students would be able to join in.

# Photos at HACKxFDU Event

Students in white have chosen to work on Fuego.



From left to right:  
Zhao Bingku(CEO of HACKx)、Bao Fei、Liu Wenlong

