Training evaluation report
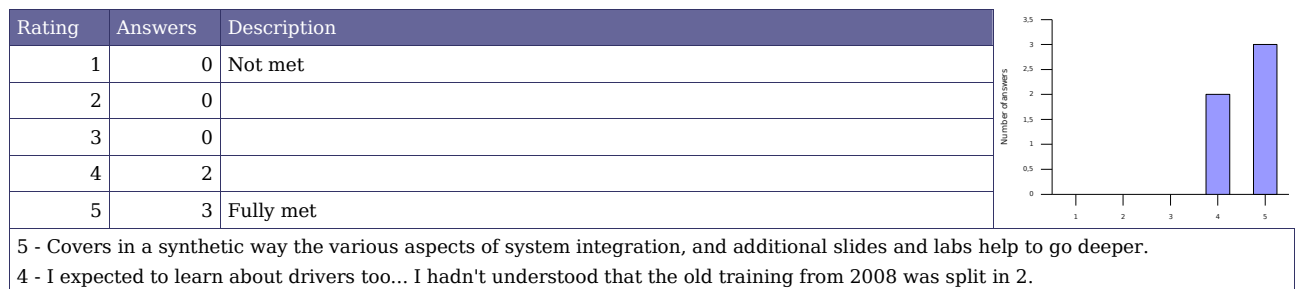
Training session: Embedded Linux Training
Training dates: May 11-15, 2009 (5 days)
Country: France

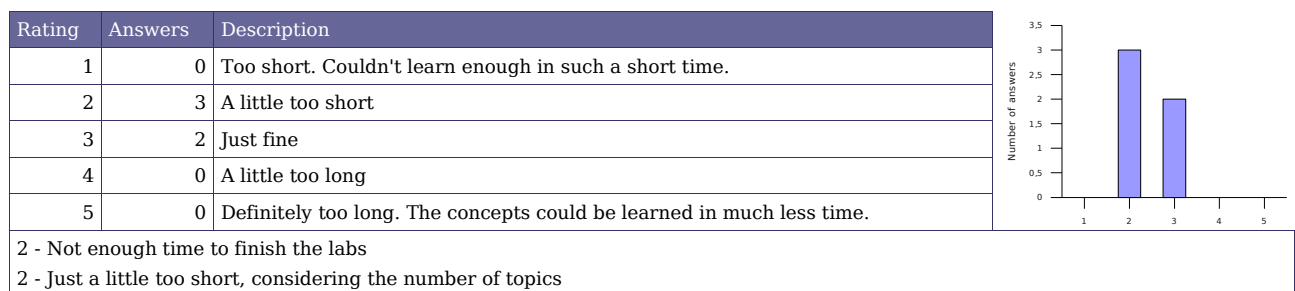**Number of participants**: 5
Returned evaluation forms: 5

Thank you for having organized a Free Electrons training session!
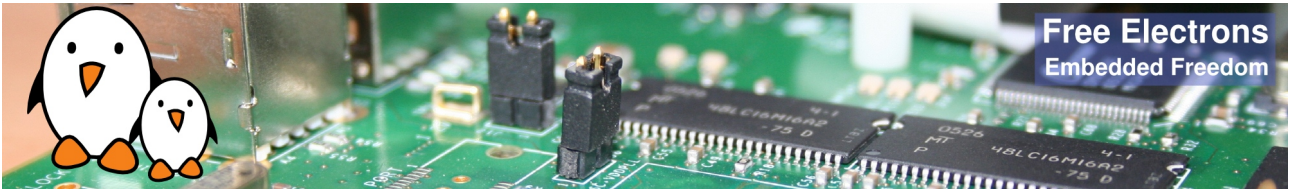
Here is a wrap-up of evaluations from participants.

Learning objectives

1. How well did the course meet your learning objectives?

Rating	Answers	Description
1	0	Not met
2	0	
3	0	
4	2	
5	3	Fully met

5 - Covers in a synthetic way the various aspects of system integration, and additional slides and labs help to go deeper.

4 - I expected to learn about drivers too... I hadn't understood that the old training from 2008 was split in 2.

2. How was the duration of the course?

Rating	Answers	Description
1	0	Too short. Couldn't learn enough in such a short time.
2	3	A little too short
3	2	Just fine
4	0	A little too long
5	0	Definitely too long. The concepts could be learned in much less time.

2 - Not enough time to finish the labs

2 - Just a little too short, considering the number of topics

Lecture materials

3. How helpful were the lecture materials?

Rating	Answers	Description
1	0	Not helpful. Made things more difficult to learn and understand.
2	0	
3	0	
4	1	
5	4	Really made things easier to understand and learn.
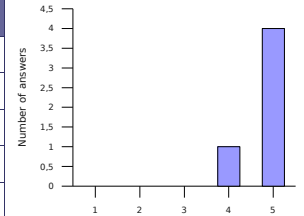
4. Will you recommend these materials to others?

Rating	Answers	Description
1	0	No. Not helpful without following the sessions.
2	0	
3	0	
4	0	
5	5	Definitely
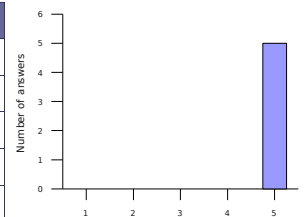
5. If you have Linux project opportunities, will you use these materials again?

Rating	Answers	Description
1	0	No. I will look for other sources of information.
2	0	
3	0	
4	0	
5	5	Definitely
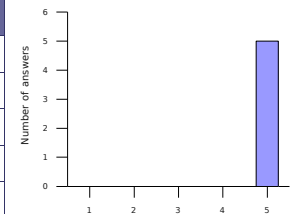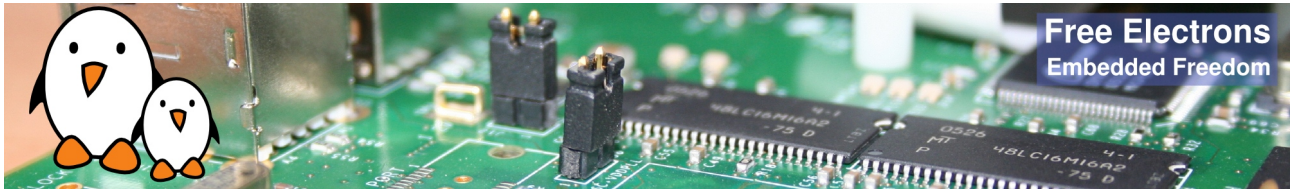
Instructor added value

6. How knowledgeable was the instructor?

Rating	Answers	Description
1	0	Not enough for my own technical experience.
2	0	
3	0	
4	1	
5	4	More than enough for my own experience.
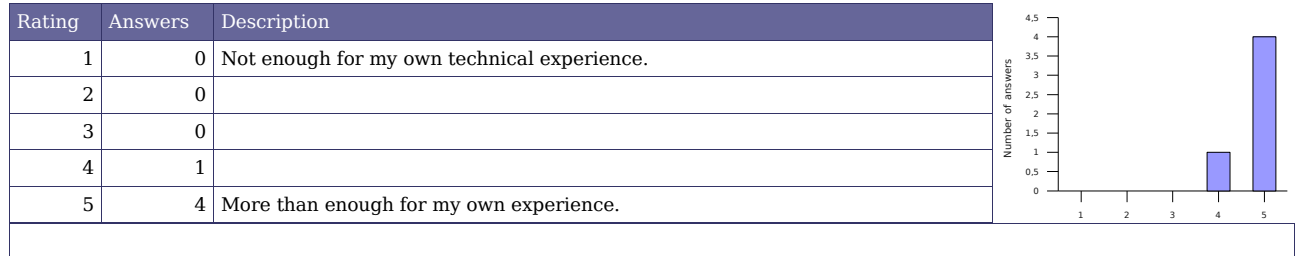
7. Did instructor oral explanations add value to the lecture materials?

Rating	Answers	Description
1	0	No added value to reading the materials.
2	0	
3	0	
4	2	
5	3	Yes. The instructor really made very useful oral explanations.
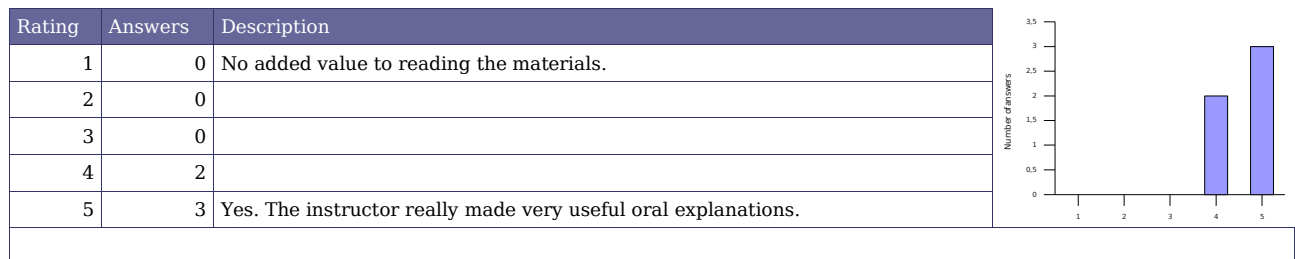
8. How well did the instructor answer questions from the audience?

Rating	Answers	Description
1	0	Poorly. Didn't try to understand the questions well or rarely managed to find useful answers.
2	0	
3	0	
4	1	
5	4	Answered very well to questions from the audience
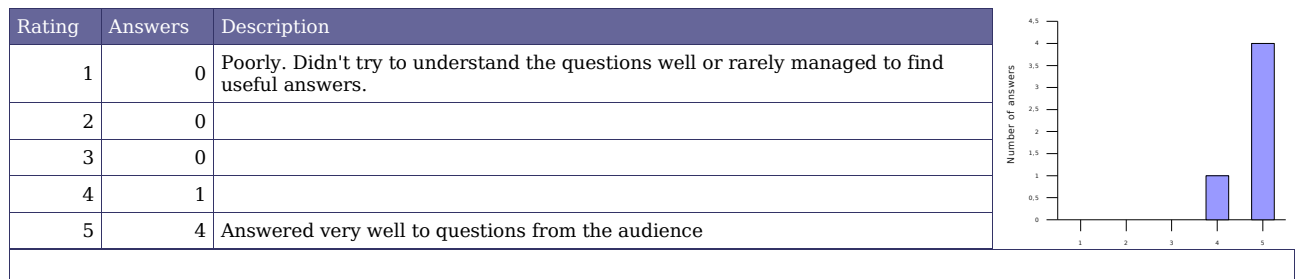
9. Was the instructor helpful with practical labs?

Rating	Answers	Description
1	0	No, not enough available and helpful during the labs.
2	0	
3	0	
4	0	
5	5	Yes. The instructor definitely helped to make labs a learning opportunity.
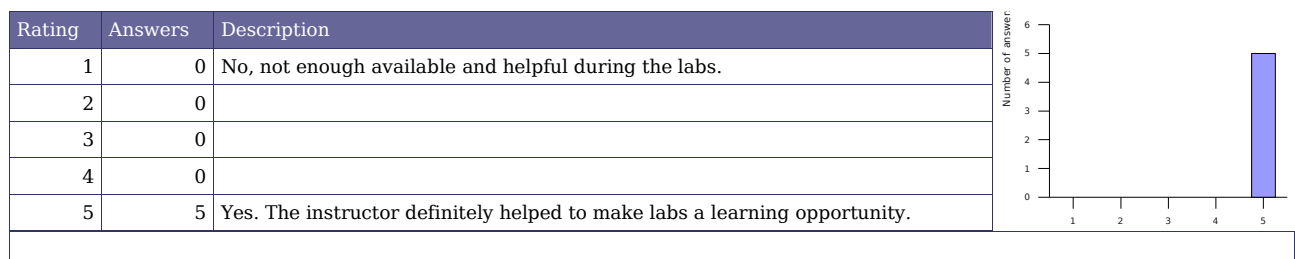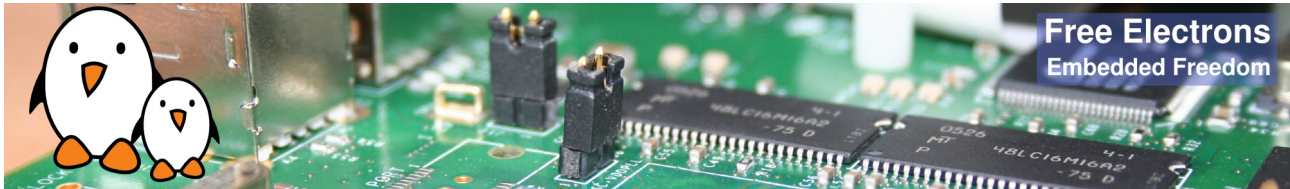
Training labs

10. How useful were the training labs?

Rating	Answers	Description
1	0	Not useful. Didn't add significant value to the lectures.
2	0	
3	0	
4	0	
5	5	Very useful. Helped to highlight things not understood and build useful experience.
5 - Very interesting to work on real boards		
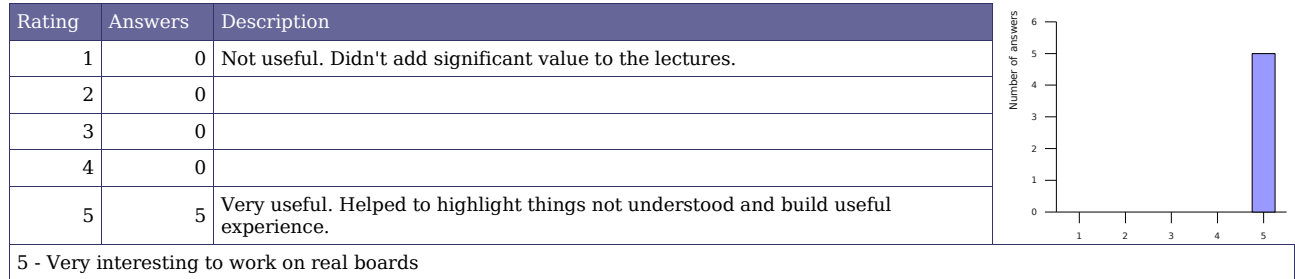
11. How difficult were the training labs?

Rating	Answers	Description
1	0	Too difficult. Didn't help or even discouraged a beginner to get more familiar with the tools and concepts.
2	1	A bit too difficult. Would be better if the lab instructions gave a bit more details about explanations.
3	4	Just fine. Prompted me to look for answers, get my own experience and find my own solutions.
4	0	Too easy for my own technical level.
5	0	Too easy for everyone. Should challenge participants more and help everyone to practice on real issues.

12. Was enough time dedicated to the practical labs?

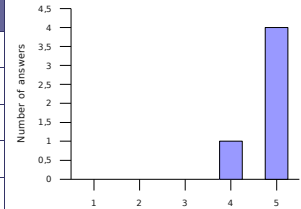| Rating	Answers	Description
1	0	No. More practice is needed
2	4	A little bit more time would help.
3	1	Just fine
4	0	A little bit less time would be enough.
5	0	Don't need to spend so much time on labs. On-the-job practice is best
2 - For some of the labs, it could be nice to get more details on how to do them. But I'm a real beginner.		
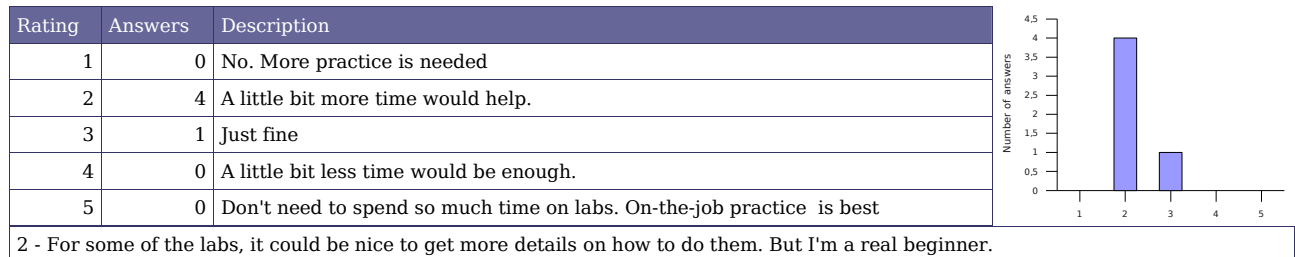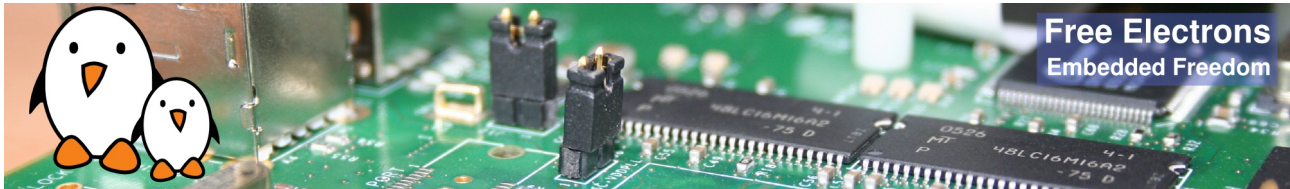
Training conditions

13. How do you rate training conditions (room size, equipment, environment...)?

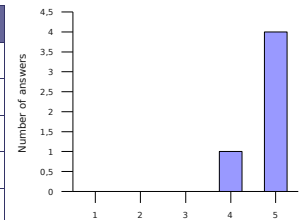| Rating	Answers	Description
1	0	Poor.
2	0	
3	0	
4	1	
5	4	Very good.

5 - Very good restaurant ;-)
4 - Lighting could improve. And maybe a more comfortable char.

14. How do you rate the training equipment (mainly computers)?

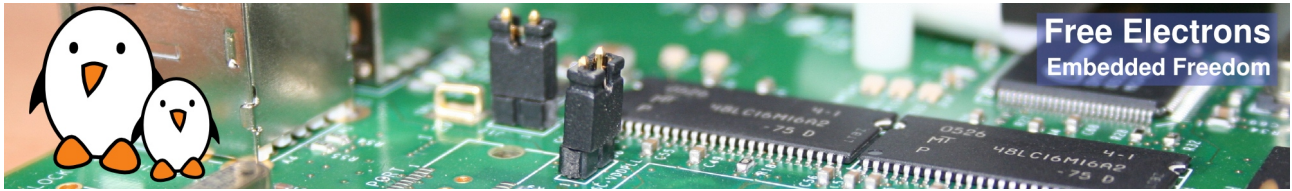| Rating	Answers	Description
1	0	Poor. Not powerful enough to execute practical labs.
2	0	
3	0	
4	1	
5	4	Very good. Very little time waiting, more time learning.

5 - The offered board was a very good way of assimilating the basics, in particular at home.

15. How well was the course organized (program, registration, meeting the schedule...)?

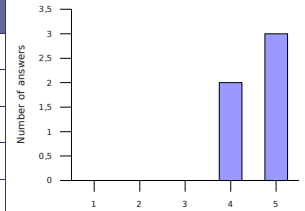| Rating	Answers	Description
1	0	Not well
2	0	
3	0	
4	1	
5	4	Very well
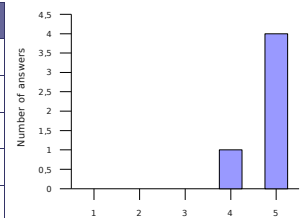
5 - Very good management of time: labs / slides / pauses

Overall rating

16. How much did you learn?

Rating	Answers	Description
1	0	Definitely not much
2	0	
3	0	
4	2	
5	3	Definitely more than I expected.

17. How useful will this course be in your daily job?

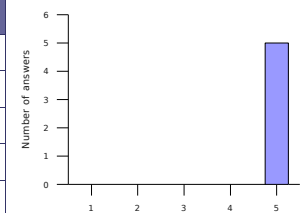| Rating	Answers	Description
1	1	Not useful.
2	0	
3	2	
4	0	
5	2	Very useful. Will make my job easier and more productive.
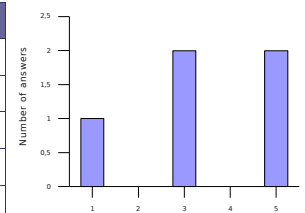
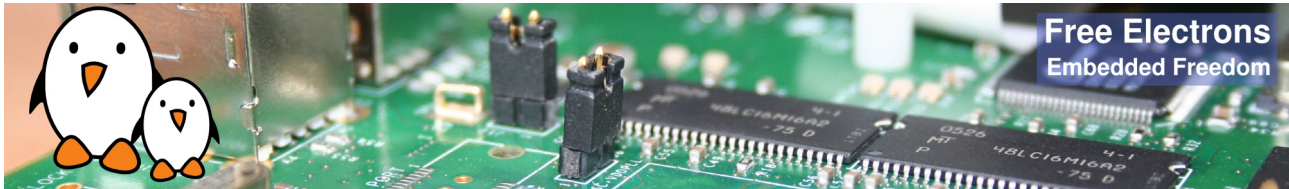5 - Very important perspectives to optimize the use of tools I already use.
3 - Depends on my future job...
1 - Unfortunately I will not be able to apply this training in the short term. But I will look forward to it!

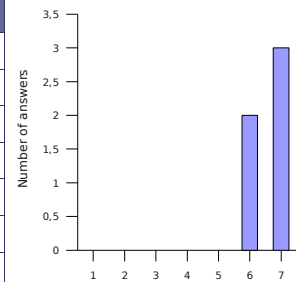18. Would you recommend this course to others?

Rating	Answers	Description
1	0	No.
2	0	
3	0	
4	0	
5	5	Yes, definitely

19. Overall rating

Rating	Answers	Description
1	0	Very disappointing
2	0	Disappointing
3	0	A little bit disappointing
4	0	OK
5	0	Pretty good
6	2	Very good
7	3	Excellent

20. An extra session?

Rating	Answers	Description
1	1	No
2	0	
3	1	Why not?
4	0	
5	3	Yes, definitely
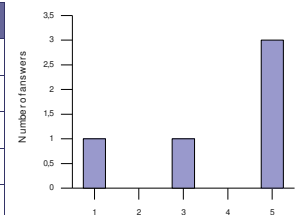
5 - Kernel and drivers

**Number of votes for topics in an extra session**

Understanding the Linux kernel	Linux device driver development		Linux board support packages		Embedded system development		Miscellaneous needs	
Process management	USB device drivers	1	Processor specific code		Lightweight tools		Java	
Filesystem implementation	USB host drivers	1	Board specific code		Embedded system development tools		Real-time	
Memory management	PCI drivers	1	Board specific interrupt support code		Cross-compiling toolchains		Audio	
Scheduling implementation	Network drivers	1	DMA support		Debugging solutions		Video	
Bootstrap code	Block drivers	1	Bootloader development		Software development tools		uClinux	
	Flash drivers	1			Programming with graphical libraries		Voice over IP	
	I2S drivers	1			POSIX API			
	Input drivers	1			System optimization			
	Sound drivers	1			Root filesystem creation			
	Video drivers	1						

Free Electrons comments

Thanks to the (sometimes oral) suggestions from the audience, we will improve future training sessions...

- By offering a cheat sheet summarizing the most useful commands to remember in embedded Linux system development, a bit like the one we offer about Unix commands.
- By making sure that lab instructions are explicit enough. We still want to avoid step by step instructions though. When details are given in the slides, we want participants to get back to the right slides and find solutions by themselves. So, we will make sure that what to do is very well explained, but not how to do it (again, only when all the details are given in the lectures).
- By leaving more time for labs, by skipping minor details in lectures.
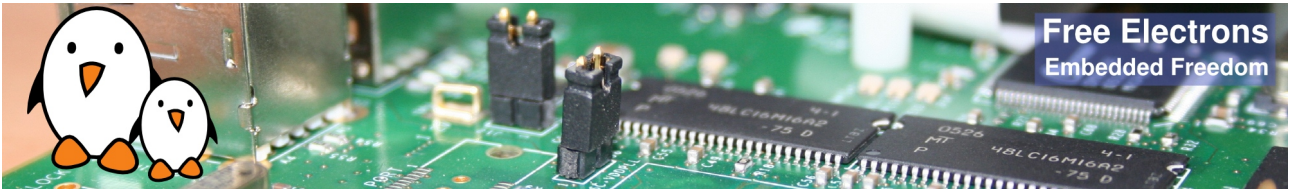
Life after training

After this training session, do not hesitate to get back to us! Here are things we could do to support you in your embedded Linux projects:

- More training: you could be interested in our 5 day course of the Linux kernel and device driver development. See http://free-electrons.com/training/kernel for details.

- If some people in your organization missed the session, and you don't have enough requests to organize another session, they can choose to go to our public training sessions. See http://free-electrons.com/training/sessions for details.

- Linux kernel porting. Adding Linux support to your boards, or supporting you in doing this.

- Having your board support code merged in mainstream sources (Linux, U-boot), so that your sources are maintained by the community. This also means for customers that your boards will be supported for a long time.

- System development and integration. Creating demos and prototypes.

- System optimization: improving system performance and features (power consumption, speed, size...)

- Investigating and fixing nasty bugs that you don't have time to cope with by yourselves.

See http://free-electrons.com/services for details.