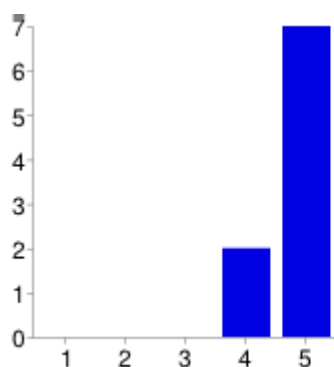


9 responses

[View all responses](#)[Publish analytics](#)

Summary

How did the course meet your learning objectives?



1	0	0%
2	0	0%
3	0	0%
4	2	22.2%
5	7	77.8%

Comments and suggestions

The course was a bit too difficult for me.

Fully met my objective for the course.

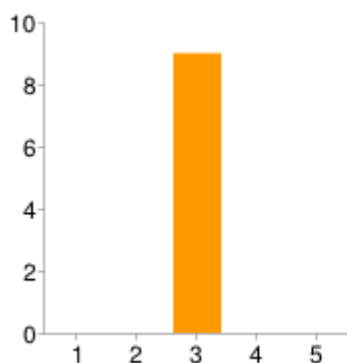
Perfection is hard to reach, but this course was pretty close to it.

I understand that Linux driver development starting from the scratch is a tough task, but I would make more emphasize in advanced peripherals as DMA, which are commonly used, supported by some real examples on them (although it has been mentioned during the course).

My expectations were to learn a lot about kernels and drivers, and have the feeling to get started with my own drivers and kernel. So i would like the learn the handles to start and what to watch out for. These things i managed to learn from these courses and i think i have the basic knowledge now to continue on my own.

I had specific interest in network drivers, which are up to certain extent special, and the course did not go that far. But the course covered the underlying kernel concepts, which are necessary to understand before proceeding to anything more specific. So I consider the objective to be fully met.

How was the duration of the course?



1	0	0%
2	0	0%
3	9	100%
4	0	0%
5	0	0%

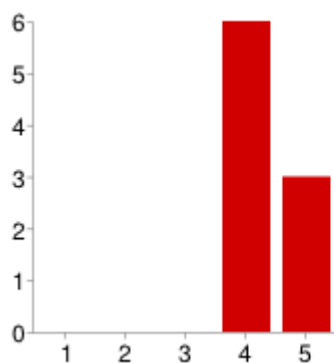
Comments and suggestions

The subject is very dense, so 5 days were reasonable for us to digest its contents. I couldn't manage to go through all the labs (will have to do it at office/home)...

It would be definitely interesting to continue, but probably learning at such speed for more than 5 days would be just too much for most people!

it was fine!

How useful was the lecture document?



1	0	0%
2	0	0%
3	0	0%
4	6	66.7%
5	3	33.3%

Comments and suggestions

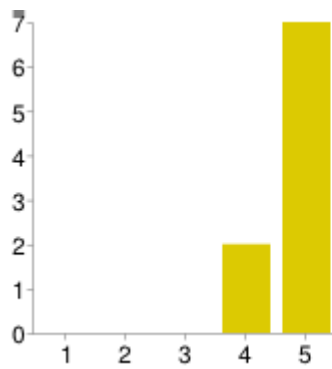
It covers a lot of subjects and gives references to resources for more info. Great.

I think I'll be using them as reference for later.

it was very useful, very clear and when things which were not up to date any more. were changed immediately. this is a good thing.

I do not have any strong opinion on this, so I select "4 out of 5". What was definitely great, is that the language of the lab book was gradually maturing. In the beginning, the instructions are at very detailed level, and towards the end, the reader is supposed to understand much higher-level commands. This is very important and valuable!

How knowledgeable was the instructor?



1	0	0%
2	0	0%
3	0	0%
4	2	22.2%
5	7	77.8%

Comments and suggestions

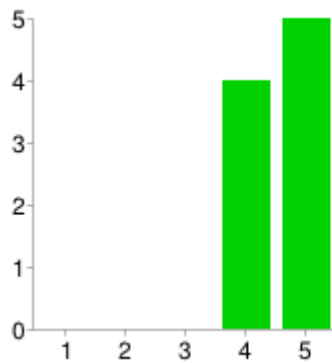
Just nothing to add here. You would not need to search for a "more knowledgeable" instructor.

He knew what he was doing and was internally motivated, which was very nice!

I think everyone noticed that he is some kind of guru of this subject.

Very nice and always willing to help. Thank you Michael.

How much value did the instructor add to lecture materials?



1	0	0%
2	0	0%
3	0	0%
4	4	44.4%
5	5	55.6%

Suggestions and comments

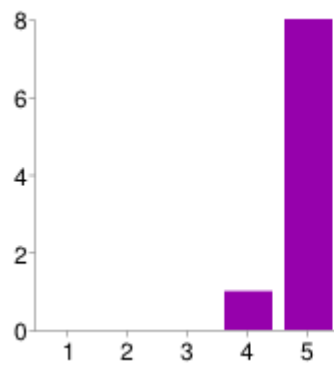
The slides/labs are well prepared, but a small class (<10 persons) really makes it possible to ask questions when needed. Otherwise, most of time could be spent in a situation when you are stuck or went a wrong way.

Michael has always added some extremely useful added value to his presentations with the practical experience he has!

Sessions were fairly interactive, with Michael trying his best to answer all the questions.

He got back with the updates the next day for questions he couldn't answer.

asking questions about things which were unclear was very helpful also if you had a question and he didn't know the answer right away he came with the answer the next day!

Was the instructor helpful with practical labs?

1	0	0%
2	0	0%
3	0	0%
4	1	11.1%
5	8	88.9%

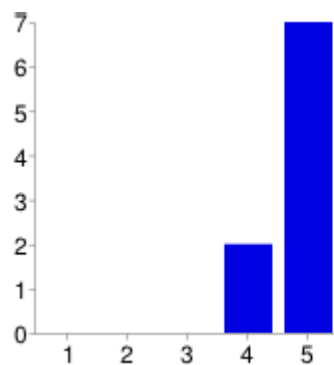
Comments and suggestions

sometimes the solutions or errors were not easily solved, then the instructor with experience was very helpful. for me i was very new to Linux, so i didn't know all the commands and programmes. i learned a lot from the help.

Nothing to add. Simply all my questions were answered and explained.

Stayed late on 3rd evening to help me find the problem. Thank you.

In my opinion, is the most encouraging teacher I have ever seen. He was always extremely happy to help everybody and he even seemed excited when we got some errors and he helped us to solve them!! Awesome attitude.

How useful were the training labs?

1	0	0%
2	0	0%
3	0	0%
4	2	22.2%
5	7	77.8%

Comments and suggestions

A bit more filling in the blanks would have been useful. Having the answers at the end is excellent for me to continue learning at home.

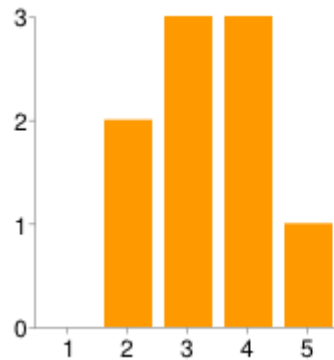
From my point of view, this course must be practical and according to what we have done, the labs help you to practice and to really understand what during slides seemed quite theoretical and difficult.

This made the theoretical better understandable due personal experience and facing problems

Debugging could be improved and started earlier.

This is the most useful thing in the course!!

How difficult were the training labs?



1	0	0%
2	2	22.2%
3	3	33.3%
4	3	33.3%
5	1	11.1%

Comments and suggestions

Too difficult for me - but probably not for others with greater expertise.

The subject is not a walk in the park. But I managed to get the big picture.

Sometimes it's really hard to find out where you are stuck and it's possible to get stuck on really small issues for long periods of time.

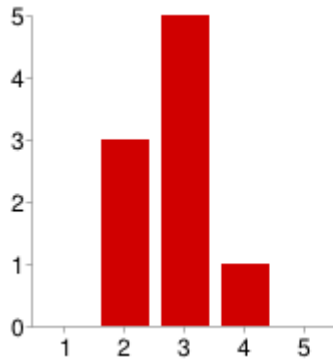
The task complexity is objectively high, but this course guides you to make it easier.

they were manageable for someone with almost none Linux experience. i didn't do the embedded Linux course before like suggested. but i managed it through the end with some help from the instructor.

There is probably no a 100% right balance between "blind copy-paste" and "understanding every word in your code". The latter is great, but would require eventually understanding every word in the whole kernel (and probably libc), which you will not get in 5 days. So there was some amount of "just copy this line here". But I would say that the balance was chosen very appropriately.

They seemed of the right difficulty level for the participants that were expected to attend.

Was enough time dedicated to practical labs?



1	0	0%
2	3	33.3%
3	5	55.6%
4	1	11.1%
5	0	0%

Comments and suggestions

Taking in mind that some errors take hours to solve, sometimes there wasn't enough time to complete labs.

difficult balance....

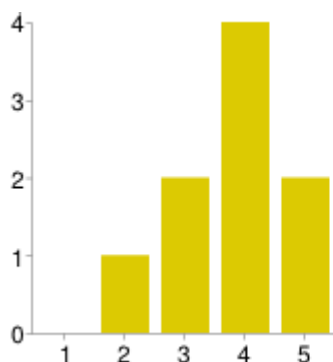
Worked for me.

I was not able to finish all the labs in the given time. but in 5 days the balance was good so. I finish the labs at home.

Could not finish them on time.

In the end, I find that the time dedicated to the lab is suitable. Nevertheless, at some moments I felt a little bit anxious and stressed because Michael wanted to go forward with some slides (trying to give work to the ones who already finished the labs), although most of the attendants did not actually finished it because we had some problems (normal). Anyway, in the end, I had enough time to finish all the tasks.

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



1	0	0%
2	1	11.1%
3	2	22.2%
4	4	44.4%
5	2	22.2%

Comments and suggestions

the equipment and enviroment were all perfect even for non azery users qwert keyboards were supplied. there was enough for all. the only thing was the network issues (this was caused by the hotel)

Ensure internet is decent next time!

Hotel internet connection had some issues during the whole week.

Except for the internet, but that was an incident.

Other than the WIFI connection, everything else was lovely.

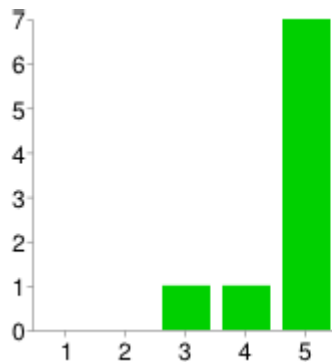
Except the internet...

Except for the hotel wifi that was regularly on holidays, its was really good. The ability to work on real hardware (beaglebone, nunchuk) is valuable.

The internet was too slow and was intermittent. Never sure if it would answer a question or not. I use internet a LOT to look up concepts (as does this course) so it is important to have it fast and reliable.

Very nice site, recommended!

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



1	0	0%
2	0	0%
3	1	11.1%
4	1	11.1%
5	7	77.8%

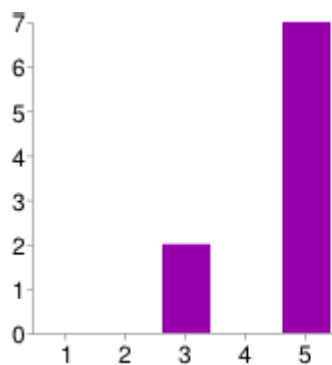
Comments and suggestions

They worked - what else one would require?

just good, don't see any point for improvement, which is just not necessary.

It is amazing that we can keep most of the training material!!!

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



1	0	0%
2	0	0%
3	2	22.2%
4	0	0%
5	7	77.8%

Comments and suggestions

I was fully happy and, in fact, do not have anything to add.

nothing to mention here. it was all oke,

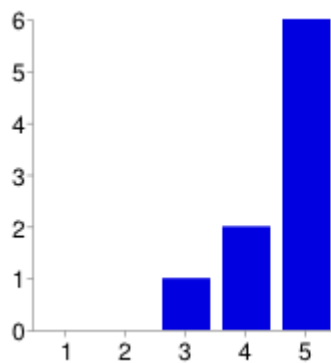
Registration was quite complicated as the seat was not reserved until the contract was signed. This didn't allow us to register hotel in time. (I was organizing the training during my vacation and thus not in the office to get the signatures...)

Nice hotel with an advantageous rate, awesome meals (nearly the best of the course).

Only one suggestion, I would try to finish one afternoon a little bit earlier to be able to make some tourism.

I'd suggest the instructors to have practice examples on the slide and demonstrated on a Linux Terminal during the lecture. This was happening, and was more impromptu.

How much did you learn?



1	0	0%
2	0	0%
3	1	11.1%
4	2	22.2%
5	6	66.7%

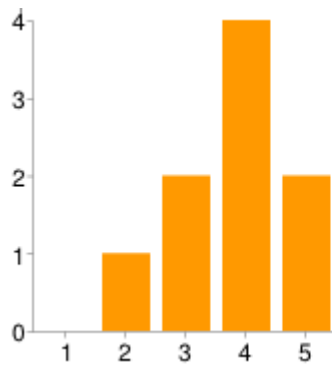
Comments and suggestions

i came in with zero knowledge and i think i can now start developing my own driver and configuring my own kernel. of course i need to read and practice something more. but the course gave me a lot of handles and situations what i can use.

I did the course of Linux Embedded last year in Madrid and I learnt lots of valuable concepts there. But this course is definitely another level since it is very specialized.

...and after learning a lot during the 40 hours of the course, I'd need to spend another 40 (if not more) hours going through this material once again, making a deeper understanding of it! which is great for me.

How useful should this course be in your daily job?



1	0	0%
2	1	11.1%
3	2	22.2%
4	4	44.4%
5	2	22.2%

Comments and suggestions

I am in consultancy so it depends on the project. but its definitely added value to my knowledge and for in the Résumé.

Not applicable on my current project, but this is definitely the direction I want to go in, so in the future it will be useful.

My company's fault, not Free-electrons!

A local repository with kernel sources could be organized, not to download (or git fetch) everything over not-too-fast Internet link.

What part(s) of the course did you like most?

Developing the drivers (specially the serial, as it involved ioremap, managing registers, exposure to user space, etc.)

The labs were well structured

Memory Management and DT.

I2C and serial driver development from the scratch. Also I have discovered the importance of dts!

The memory and dma courses.

I cannot select a "part". I liked the course as whole.

The practical labs and the interaction with the instructor and the participants. (and the lunches !!!)

Lunch :)

What part(s) of the course did you like least?

All were good!

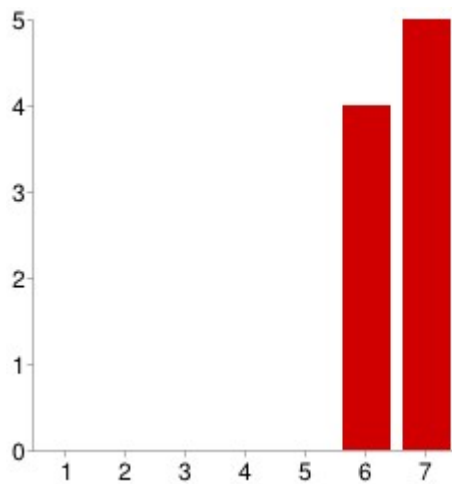
Device Tree was the least relevant part for my daily job since I work on x86-64.

Community contribution. i do not think that I am going to do it...

None...

Nothing really.

Overall rating



1	0	0%
2	0	0%
3	0	0%
4	0	0%
5	0	0%
6	4	44.4%
7	5	55.6%

Comments and suggestions

My suggestions is to organize the material differently. Start by showing 2 exmaples of say i2c: 1. Userland C interface that works. 2. Bare metal interface that works. Then show how the kernel connects the two. I didn't come away with that understanding which would have be very helpful. Then if possilbe do the same thing for UART.

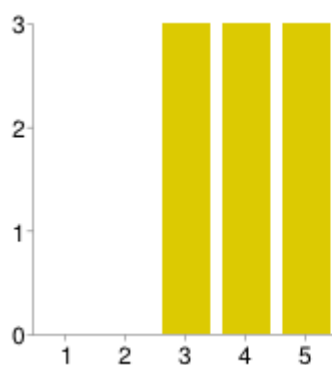
Excellent course. Very recommendable!

Everything was amazing!!! Thank you Michael! Thank you Free Electrons!

I would personally thank the instructor for this course. his personal enthusiasm, attitude and experience were very motivating and nice to listen to. his personality is very nice and fun. This makes the whole course more fun and nice to learn. thanks!

Would be nice to show a demo of how to contribute to Linux kernel, instead of showing slides.

Further training needs?



1	0	0%
2	0	0%
3	3	33.3%
4	3	33.3%
5	3	33.3%

Comments

Maybe I would be interested in some advanced Linux Driver Development course with

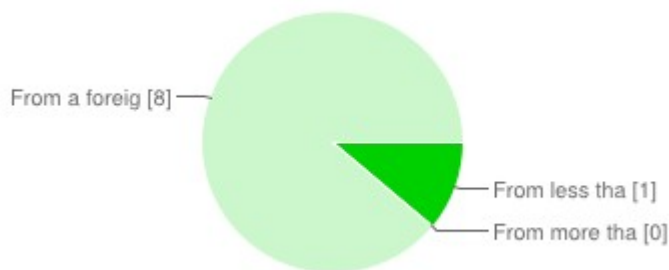
more complicated modules and peripherals.

I would like to learn more about embedded linux and drivers but also the: -Android system development training -Yocto Project and OpenEmbedded development training looks also very interesting.

This time was spent very efficiently and I believe that any company, who wants to invest in technical skills of its personnel, would make good choice to order training from Free Electrons.

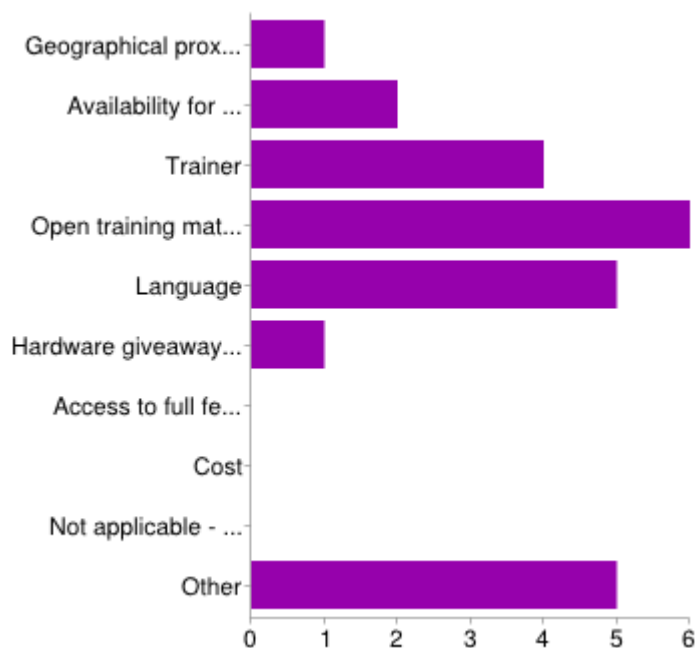
Probably field applications. It would be nice to have courses for things like how Linux is applied in medical fields, drones, etc.

How far do you come from?



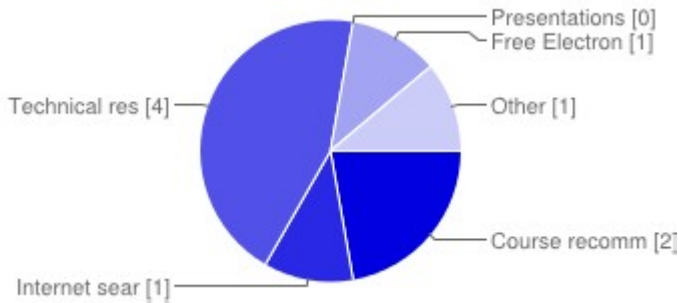
From less than 100 km / 60 miles	1	11.1%
From more than 100 km / 60 miles, same country	0	0%
From a foreign country	8	88.9%

What prompted you to choose Free Electrons?



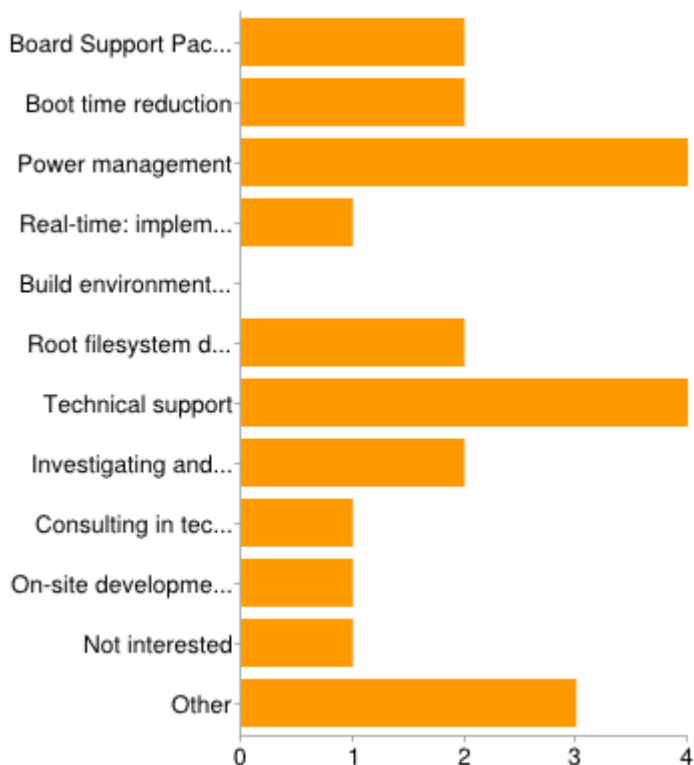
Geographical proximity (public sessions only)	1	11.1%
Availability for on-site sessions	2	22.2%
Trainer	4	44.4%
Open training materials that can be checked in advance	6	66.7%
Language	5	55.6%
Hardware giveaway (public sessions only)	1	11.1%
Access to full feedback from participants to previous sessions	0	0%
Cost	0	0%
Not applicable - My management made the decision	0	0%
Other	5	55.6%

How did you first learn about Free Electrons?



Course recommended by previous participants	2	22.2%
Internet search engines	1	11.1%
Technical resources on the Free Electrons website	4	44.4%
Presentations in conferences	0	0%
Free Electrons chosen by my management	1	11.1%
Other	1	11.1%

Interested in other types of embedded Linux / Android engineering services?



Board Support Package development: make Linux / Android support your new hardware	2	22.2%
Boot time reduction	2	22.2%
Power management	4	44.4%
Real-time: implementation and bug fixing	1	11.1%
Build environment deployment and support	0	0%
Root filesystem design and development	2	22.2%
Technical support	4	44.4%
Investigating and fixing bugs	2	22.2%
Consulting in technology selection and methodology	1	11.1%
On-site development, support and consulting services	1	11.1%
Not interested	1	11.1%
Other	3	33.3%

Comments and expectations

I am not really in the embedded world so I don't think this would be applicable.

This is personal interest.

I am interested in services but distance could be a challenge. I suggest we let it evolve.

Number of daily responses

