

C++ Software Developer Internship

About the Job

We're looking to hire a part time software developer / intern to crank out some some plugins for our awesome cross-platform logic analyzer software.

Our software (<http://www.saleae.com/downloads> -- try it out) uses a plugin model to load these things called "protocol analyzers" which decode the characters/messages encoded in digital waveforms. For example, an Ethernet packet is ultimately composed of bits, and our logic analyzer products could in principle record a digital Ethernet signal and display the waveform. It would be job of an Ethernet analyzer to then translate that waveform into organized packets – header, data, checksum, etc. Like wireshark, but at a lower level.

We have an SDK that we use to create all our protocol analyzers, and we have quite a few. But there's tons more we would love to add. It probably takes about a week to produce a polished analyzer, and we just don't have any weeks to spare these days.

If you want to read up on how it works, we have documentation here:

<http://downloads.saleae.com/SDK/Saleae%20Analyzer%20SDK.pdf>

<http://downloads.saleae.com/SDK/SaleaeAnalyzerSdk-1.1.14.zip>

<http://downloads.saleae.com/SDK/Saleae%20Analyzer%20Source%201.1.14.zip>

If things go well you could also get involved in our main software, adding some cool features to that. That is a full blown C++ cross platform application (Windows, Linux & Mac) using the QT framework.

Lastly, you'll communicate with customers (other engineers) about technical questions that come up over phone and email.

That said, things may change and you could end up working on something completely different and unrelated to CS if you wanted. We're a small company with plenty of to do, all very cross-discipline stuff.

About You

- You're a super smart engineer.
- You're a cool, easy going, nice person. Easy to get along with, and have a beer with.
- You care. You care a lot about things being done right, being done well. You have very high standards for yourself.
- You can focus and crank out code when you need to.

- You've written all sorts of software on the side – web, desktop, mobile, firmware, whatever. You have at least some experience with C or C++, and a good amount of experience with some other language.
- You're at least somewhat interested in hardware and building things in addition to software. Ideally you've played with microcontrollers (Arduino counts) and have ordered stuff from Sparkfun.com, etc.
- You're willing to take just about anything on -- and figure it out one way or the other.
- You would be good talking with customers on the phone, and you are willing to go the extra mile to provide great service.

About Us

Saleae is profitable and growing but very small, with currently two full time people, the founders. Mark recently graduated from ASU with a BSEE but has been involved since the beginning. Joe graduated with a BSEE in 2000 and MBA in 2006. We kind of stumbled into Logic Analyzers, originally the idea was just to get some sort of product to market. It just so happens that a logic analyzer was the first thing that started paying the bills. We have a number of products/features we want to add to round out our logic analyzer lineup (so that we can say we have the best logic analyzers in the world, actually), but in the future we may want to start some completely different company. Still to be done are one more major product and a number of support products, as well as a significant amount of software features. We would like to be done with these efforts by mid-2013 or sooner. To do this we need your help!

Why this job would be cool

- Part time, super flexible hours. Pretty much anything could work. Nights, weekends, etc.
- We sell real, physical products and ship to customers right from our office.
- You will work on real world stuff and work directly with customers.
- You will not be a minuscule part of a massive project – you are responsible for the entire thing -- whether it works and is awesome, or sucks.
- Access to everything you might want to know about starting your own company. (we're more of a bootstrapped-style startup, as opposed to a VC/Angel funded startup)

To Apply

Send a resume and some links to cool projects you've worked on to jobs@saleae.com. Questions? Call/email us support@saleae.com, 510-984-2463 x6.