



## ELEMENT ENGINEERING



### Firmware Engineer

Element Engineering Australia

Perth • Eastern Suburbs

Information & Communication Technology • Engineering - Hardware

Full Time

Posted 3d ago

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Element Engineering Australia is fast becoming one of the world's leading product development houses. We are developing our own IoT ecosystem as well as helping clients from all around the globe utilize cutting edge technology in their designs and user experiences. With projects spanning Consumer Products, IoT, Big Data and Automation in the Resources Sectors, there are no shortage of interesting challenges at Element Engineering.

### Some of Our Projects

We are seeking **Firmware Engineers** to join our team and be part of some exciting projects.

Our major project is the development of our own IoT ecosystem. We are developing a range of rugged Industrial Smart Sensors, Loggers and Controllers to properly take IoT to

the masses. No Raspberry Pi or Arduino hacking here, we develop all our own electronics, firmware, back-end and apps from scratch, creating a no-compromise IoT product that we can robustly take to professionals and consumers of the world.

Our Firmware Engineers work directly with our Electronics Team to create fit for purpose electronic devices that work into our IoT ecosystem. Code developed is rigorously tested across numerous CI systems on all our different devices.

We also continue to undertake engineering product design works for clients on their novel designs spanning Consumer and Industrial, Electronics and Mechatronic Systems. We either work as the clients engineering team, or incorporate our core technologies into their particular form factors in a licensed end-use partnership.

## **The Role**

We are seeking Firmware Engineers who want to join our Mechatronic Product Development Team.

This Firmware Engineer role will work directly alongside our Senior Firmware Engineer who is architecting our IoT system.

We are seeking Firmware Engineers who:

- Are ambitious and driven
- Are able to see a firmware project holistically and contribute in a collaborative way
- Have a desire to grow with the company and bring your own unique flare to the products development team
- Actively keep up to date with emerging technologies and enjoy prototyping and implementing them in real world products

## **Pre-requisites you should bring**

We are looking for proficient Firmware Engineers with a proven track record, with the following skills:

- Tertiary Education in Software Engineering, Mechatronic Engineering or Electronics Engineering, preferably, Bachelors Degree, Diploma or equivalent certificates
- Basic understanding of C programming language
- Must have completed a course in data structures and algorithms that used either C or C++ as the primary language
  - Java is acceptable but the candidate must demonstrate an understanding of memory management and use of "raw" pointers through showing us a personal project that uses either C or C++
- Knowledge of how to use GDB from the terminal for debugging C programs
- Familiarity with at least one higher level programming language (Python preferred) for "supporting" work; integration with and directly contributing to a larger stack, as well as

testing and debugging

- Basic familiarity with electronics terminology and concepts (measurement of current, voltage, noise)
- Must enjoy the challenges associated with low level programming
- Has a high level of attention to detail
- Proficient with Git workflows

**The ability to show us your skills by demoing code you have written, or personal firmware / electronic projects you have worked on is a prerequisite in the interview.**

### **What's in it for you?**

This position gives you the opportunity to be part of our new IoT product development as well as working directly with large and exciting clients from around the world.

You will work directly with our Senior Firmware Engineer and alongside Full Stack Engineers, Electronics Engineers, App Developers, UX Designers and our Management Team to bring our IoT Ecosystem together, as well as interfacing with clients.

Our entire team has the flexibility to work from the office as well as working from home. Our unique management systems allow complete flexibility for all employees.

With an exceptional culture, highly flexible working arrangements, charismatic and diverse team with many social events, amazing clients from all around the world, and the development of our own product suite, being part of the Element Engineering team is more than just a job.

### **How do you apply?**

Please apply here through SEEK and send through your Cover Letter and Resume.

Have something ready to demo for us, even if it's a small personal project, that shows us your Firmware Engineering skills.

Please note, only applicants with Australian Working Rights and currently residing in Perth, Western Australia, or willing to relocate at own cost, will be considered.

Only Shortlisted candidates will be contacted. Applications only be accepted directly through SEEK.

**Applications will not be accepted through recruitment agencies.**

Thank you for considering Element Engineering as the next team you may grow with.

### **Employer questions**

**Your application will include the following questions:**

Which of the following statements best describes your right to work in Australia?

How many years' experience do you have as a Firmware Engineer?

Which of the following programming languages are you experienced in?

What's your expected annual base salary?

How much notice are you required to give your current employer?

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