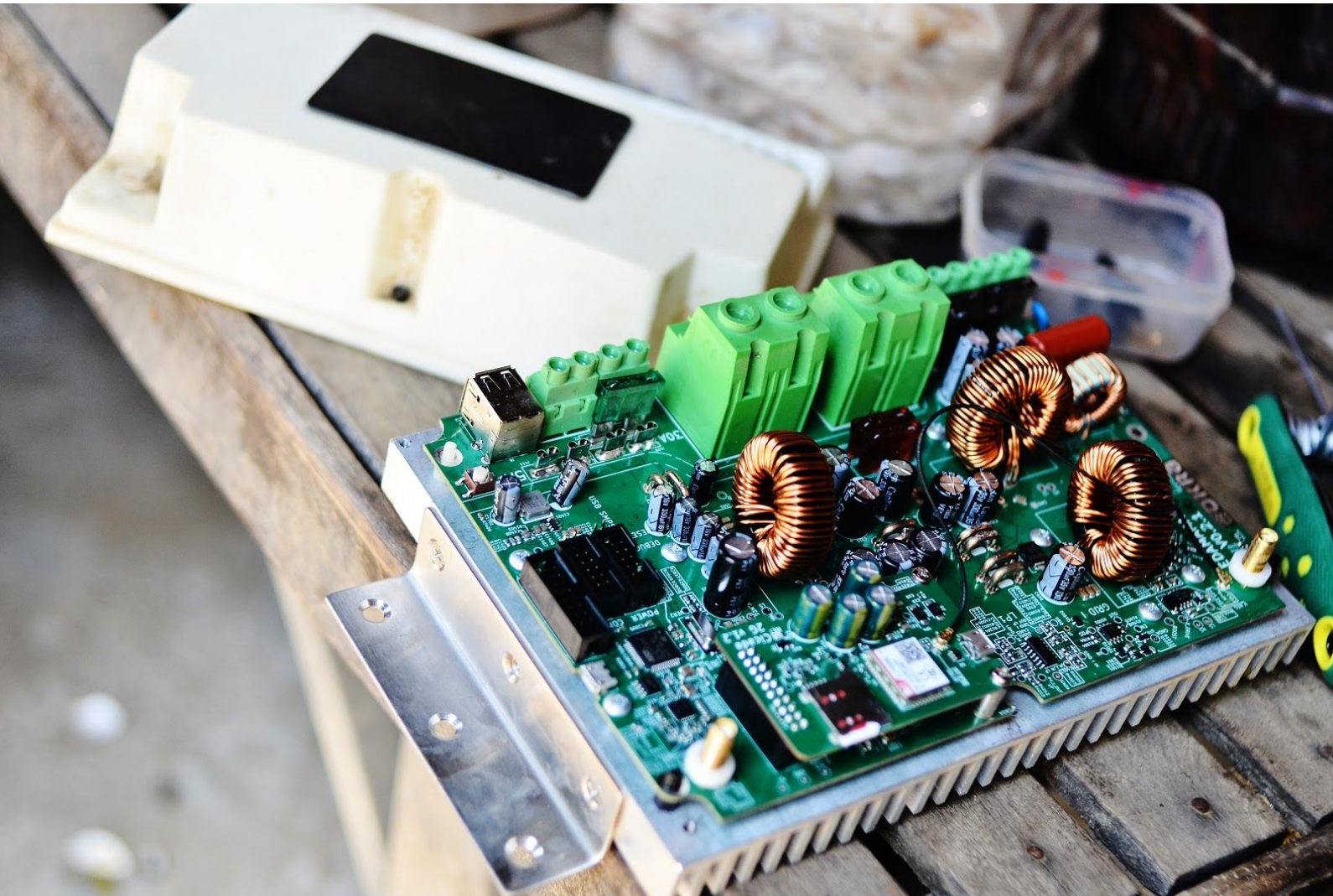


Senior Power Electronics Engineer

- Full-time
- Start Date - Immediately
- Kuala Lumpur, Malaysia & Shenzhen, China
- \$2,000 - 2,500 USD / month

What's Okra? We're an IoT startup company bringing energy access to the 1 billion people who don't have power. In 2019 we made the [Cleantech 50 Companies to watch](#), we [won the 2019 Techcrunch Hardware Battlefield](#) in Shenzhen, won the [2019 IEEE Empower A Billion Lives](#) competition and were the back to back [2018 and 2019 PFAN clean energy Business Plan Winners](#). We are looking for a hard working and dependable Senior Power Electronics Engineer to join our team - to help us manufacture dependable IoT products.



Opportunity

Okra is looking for a **Senior Power Electronics Engineer** to join our team full-time in Shenzhen or Kuala Lumpur (with trips to Shenzhen required regularly).

What you can expect to work on:

- ❑ Electronic design of Okra's next generation smart grid controllers
 - ❑ Ensuring Okra's electronic products meet functional, reliability and regulatory requirements
 - ❑ Supporting and maintaining existing Okra electronic designs, including cost reduction, reliability improvements and debugging field failures.
 - ❑ Liaising with manufacturers and component suppliers
 - ❑ System-level integration testing and validation
 - ❑ Prototype testing and debugging
 - ❑ Assisting with EMC and other compliance tests
 - ❑ Working alongside various staff with different technical backgrounds
 - ❑ Field visits to Okra smart grid sites in Southeast Asia
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What we're looking for: **you can still apply if you don't fit all the requirements.*

- ❑ 7+ years with electronic design, testing & manufacturing. Preferably with a focus on DC and AC power electronics.
- ❑ Expertise in medium/high power SMPSs, analog sensing, microcontrollers, and battery technologies.
- ❑ Experience with circuit and PCB design software such as Altium or KiCad
- ❑ Experience taking medium/high power circuits through EMC certification and reliability testing.
- ❑ Experience with control systems theory, particularly PID controllers
- ❑ Competence in operating electronic measurement equipment such as oscilloscopes, multimeters, spectrum analysers, electronic loads and power supplies
- ❑ Excellent communication skills with the ability to work with an offshore team
- ❑ Open-mindedness, willingness to learn and excitement for solving worldly problems by experimenting, sharing knowledge and letting the best ideas win
- ❑ A university degree in engineering or science, or equivalent industry experience

We also value these skills: **you can still apply if you don't fit all the requirements.*

- ❑ Product development using Agile methodologies
 - ❑ DfX methodologies
 - ❑ Peripherals such as EEPROM, ADC, timers
 - ❑ Interfaces such as I2C, UART and SPI
 - ❑ Version control systems such as Git/SVN
 - ❑ Manufacturing electronics products in China
 - ❑ Embedded firmware development using C/C++
 - ❑ Scripting languages such as Python or Javascript
 - ❑ Experience in systems involving various electrical engineering disciplines including high power AC/DC, RF communication, sensors, high-reliability electronics, EMC testing and compliance certification
 - ❑ A keen interest in solar technologies and social impact
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Benefits

- ❑ Flexible work location and working hours
 - ❑ Professional career progression and opportunity to take on leadership responsibilities
 - ❑ All expenses paid for national and international team trips (yearly team retreats, hackathons, etc.)
 - ❑ Cover for work travel, health insurance, sick leave and equipment (i.e. laptops)
 - ❑ A great work culture in fast paced startup environment with multinational staff
 - ❑ The ability to take on additional relevant education while working
 - ❑ Mentorship from our investors (Schneider Electric, Greenway Grid Global) and a range of experienced leaders and changemakers in our network.
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Internal Liaisons

- Hardware engineering team
- Firmware engineering team
- Manufacturing team

External liaisons

- Equipment / component suppliers
- Contract manufacturers



Our Challenge

After successfully deploying our prototype product in pilot projects across Cambodia, Philippines and Indonesia, Okra is looking for an experienced and motivated **Senior Power Electronics Engineer** who can help us develop and maintain hardware to enable distributed generation and storage solar microgrids in developing nations.

The role will primarily involve design specification, circuit design and simulation, PCB layout, hardware testing and debugging, cost reduction of BOMs optimized for the Guangdong components market and working closely with our manufacturers in Shenzhen during production phases to ensure quality control. The vast majority of this work will be done in collaboration with the product development team which is spread between China, Malaysia and Australia.

More About Okra

1 billion people around the world still don't have access to clean and reliable electricity. Okra has financial backing from investors including Schneider Electric, Smart Axiata, Greenway Global Grid. Our mission is to use IoT and big data to provide technology that will enable rapid electrification of the 1 billion people who don't have electricity. We are expecting to continue our trajectory of being a high growth company over the next few years, so this is an exciting time for everyone!

#PowerToThePeople

Not for you?

Check out out these other [job openings](#) that may fit your profile:

- Team Lead - Hardware Engineer
- Hardware Quality Assurance Engineer