

**Job Title:**

Sr. Product Development Engineer

Reports To:

Sr. Director of Product Dev & Engineering

Location:

Integrated Biometrics, LLC

6150 W Chandler Blvd,

Chandler, AZ 85226

Job Description

IB is recruiting for an energetic **Sr. Product Development & Engineer** for our Product Development & Engineering team. IB makes the world's most compact FBI certified fingerprint sensors. In this position you will help develop what is coming next and help us make identity better. It requires both hand-on engineering as well as team leadership.

This person will accelerate the development and integration of improvements to our technology with hardware/firmware/software integration and device engineering. These improvements are to include both performance improvements and new features. They will also lead investigative efforts on root cause analysis of challenges with our proprietary fingerprint sensor technology. In addition, they will be expected to contribute to developing new proposals to both solve existing challenges as well as expand our technology portfolio to bolster and broaden our business reach.

Additionally, they will assist in the development and improvements of the manufacturing process, yield improvements and quality assurance. They will provide functional leadership to more junior engineers, setting up experimental plans (DOE), ensuring proper analysis and reporting of data. This position offers variety. It spans technology, product, and process development. It is on-site at our center for R&D in Chandler, Arizona. Some domestic and international travel is expected.

Typical projects include:

- Design and evaluate alternative system architectures.
- Support design review to ensure manufacturability, testability, quality as well as performance.
- Teardown, analyze, and benchmark various sensor products - including supporting software.
- Develop prototypes/breadboard of new product concepts or improvements to existing products.
- Identify, test, and qualify new state-of-art electronic/hardware components.
- Develop cost models for new as well as existing products.



This position requires:

- BS in Computer Science, Electrical Engineering, or related degree
- 8-12 years' experience in an engineering hands-on environment
- 5+ years' experience - Deep understanding of hardware, SoC, ARMs, PCBs, FPGAs, CPLDs...
- Proven track record of successfully launching and improving products throughout the product lifecycle.
- Experience in new product development, new product releases and revisions and technical support
- Solid understanding of engineering principles, manufacturing processes, and quality assurance standards
- Understanding of communication protocols such as USB, Parallel, MIPI, SPI...
- Proficiency with various OS's such as Linux, Windows, Android, iOS
- Ability to use at least one PCB Design tool such OrCad, PADs or Eagle
- Expert level for C/C++ familiarity with Verilog HDL
- Skilled in use of test equipment such as VOM (DMM), Oscilloscope, Logic Analyzers etc.
- Very good general computer skills (including MS Project)
- Strong analytical skills
- Self-motivated, detail-oriented, and capable of managing multiple projects simultaneously.
- Problem Solving, Teamwork, Communication, and Interpersonal Skills, must possess the company's values.
- Willingness and ability to travel, including internationally.
- Must be comfortable and effective communicating with others who have English as a secondary or tertiary language.
- Curious, innovative, and ambitious; driven to achieve by understanding and solving challenges.
- **Must have prior team leadership skills.**



Other Desirable Skills & Qualification (not required)

- MS/PhD in Computer Science or Electrical Engineering
- Familiarity with quality processes and/or systems
- Understanding of fingerprint sensors and related metrics
- Familiar with fingerprint sensor certifications
- Some understanding multilayer electro-optic device operation and architecture.
- Korean language skill

ABOUT IB

Integrated Biometrics, LLC designs and manufactures FBI-certified fingerprint sensors for law enforcement, military operations, homeland security, national identity, election validation, social services, and a wide range of commercial applications. The company's patented light emitting sensor technology enables lightweight scanners that outperform traditional prism-based devices in size, power consumption, portability, and reliability. Identity management solutions providers, government agencies, and corporations around the world rely on Integrated Biometrics' products to enroll and verify individual identity quickly and accurately, even in remote locations.

In early 2017, Integrated Biometrics adopted the Entrepreneurial Operating System (EOS) – as taught in TRACTION by Gino Wickman. We use this approach for the overall foundation of the organization. The results have been good to excellent. Naturally, we are continuing to extend EOS to all levels of the organization. It has become an important part of our culture of achievement.

Our executive offices, including marketing, finance, accounting, domestic logistics and strategic engineering, are based in Spartanburg SC. Our manufacturing and product / process / engineering offices are outside of Seoul, South Korea. We also have an expanding R&D lab and film production facility in Mesa, AZ. The majority of IB's sales resources work remotely across the globe.

IB has been recognized as one of the South Carolina Top-25 Fastest Growing Companies in 2016, 2017, 2019 and 2020 and in the Inc. 5000 Fastest Growing Companies for 2016, 2017, 2018, 2019, and 2020.



Core Purpose: We enable convenient, accurate fingerprint identification.

Core Values:

- Customer-focused
 - Friendly – Cooperative – Good Listener – Respectful
- Get Things Done
 - Persistent – Curious & Innovative – Results Oriented – Proactive
Resourceful Common Sense – Helpful – Enthusiastic – Adaptable

- Accountable

Trustworthy – Team Player – Cooperative Relationships – Honest – Reliable – Quality Work Unbiased Behavior – Support for Workplace Diversity

Responses can be sent to: jobs@integratedbiometrics.com