



JOB DESCRIPTION

Job Title: Image Processing Software Engineer	Location: Integrated Biometrics, LLC 121 Broadcast Drive – Level #2 Spartanburg SC 29303
Job Description	
Job Purpose: This position reports directly to the company Software Team Leader in our South Korean operation.	
Duties: <ul style="list-style-type: none">• Work within the existing engineering team developing new imaging processing techniques and implementing them• Work with the engineering team to ensure best practices for software design and implementation• Solve software problems by detail analysis of the log files, source code and symptoms• Develop/Improve image capture algorithm with high speed and good image quality• Develop fingerprint enrollment/matching algorithm (sequence checking process)• Implement international standard specification for fingerprint image and minutiae• Assist in continuous product quality and performance improvements for all products• Support SDK maintenance and releases for various frameworks and platforms• Support other core software used inside and outside of IB. An example is testing, and analysis software used in manufacturing.• Stay abreast of competitors' software and use case algorithms by understanding their performance strengths and weaknesses	

JOB DESCRIPTION

Required Skills/Qualification

- 5+ years' experience in implementing digital image processing algorithm
- Ability to use Microsoft Office, PPT, Excel, Word, Outlook
- Deep understand of noise, Band Pass Filters, Linear filters, anisotropic diffusion
- Needs to understand directional, texture and frequency analysis in the Spatial domain
- Pattern recognition
- Affine transformation – scale images, rotate images, mirror images, etc.
- Contrast Enhancement techniques such as histogram equalization. Should know linear and non-linear techniques
- Feature Detection, for example edge detection, artifact detection, etc.
- Understanding of software development process including QA and change control
- Expert with C, C++, Visual C++ and Visual Studio
- Image analysis with common tools such as Image-J, Image Analysis Toolbox of MATLAB or advance features of Photoshop.
- Problem Solving, Teamwork, Communication and Interpersonal Skills, must possess the company's values.
- Must be able to travel 10% - 15% of the time including international
- Ability to work with resources in other locations and time zone utilizing collaboration and communications tools

Desired Skills/Qualification (differentiators)

- Signal analysis, machine learning and Neural Networks.
- Able to work in Android and Linux environments
- Strong coding skills in Java
- Strong interest in algorithm and image processing. And knows the current state of the art
- Understanding of encryption schemes such as AES, PKCS.
- Ability to excel in a high-octane work environment.
- Comfortable getting assignments and task done without continuous oversight.
- Eager to learn new things, curious.



JOB DESCRIPTION

More On Integrated Biometrics

Culture is important to Integrated Biometrics and a good “cultural fit” is required for employment. Integrated Biometrics has adopted the Executive Operating System (EOS) approach for the overall foundation of the organization. The EOS concept was initially outlined in the book TRACTION by Gino Wickman. Integrated Biometrics is early in its TRACTION adoption and overall embracing of EOS. Management is committed to EOS and, for 2018, is expanding EOS to all levels of the organization.

Core Purpose:

(Why IB Exists)

Enabling convenient, accurate finger print identification.

Core Values:

(Standards Of Behavior At IB)

- **Accountable**
- **Resourceful**
- **Results Oriented**
- **Persistent / Diligent**
- **Customer Focused (External And Internal)**
- **Curious**

Permission To Play Values:

(Must-Haves To work At IB)

- **Reliable / Trustworthy**
- **Co-operative**
- **Good Listener**
- **Team Player**
- **Respectful**
- **Honest**
- **Friendly**
- **Helpful**
- **Have Common Sense**



JOB DESCRIPTION

Who Are Integrated Biometrics?

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.

IB is a multinational company that is rapidly scaling with high double-digit sales growth, with all the challenges and opportunities that accompany rapid growth.

Our executive offices, including marketing, finance, accounting, domestic logistics and strategic engineering, are based in Spartanburg SC. Our manufacturing and product / process / film engineering offices are outside of Seoul, South Korea. We also have an expanding R&D lab and film production facility in Phoenix 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 and 2017 and in the Inc. 5000 Fastest Growing Companies for 2016 and 2017.