

JOIN US

Build Smart with Espressif



Official Website



LinkedIn

SHARE :: CONNECT :: INNOVATE

ESP32 IC Design House

RISC-V
Wi-Fi
Bluetooth LE
Thread
Zigbee
AI
Operating Systems
Cloud Solutions



Table of Content

01

About Espressif

Who We Are01

Vision and Mission.....03

Core Technologies and Chip Matrix.....05

Industry Outlook09

02

People at Espressif

Meet Espressifers.....11

Culture and Activities15

03

Campus Recruitment

Current Job Openings.....17

Who We Are

A Global Leader in Semiconductor Innovation

Espressif Systems (SSE: 688018.SH) pioneers full-stack platforms powering the next generation of intelligent, energy-efficient IoT and edge AI devices. Our open-source technologies are transforming industries by enabling scalable, secure, and cost-effective innovation—from consumer products to industrial IoT. The breakthrough integration of compute and connectivity in our SoCs reshaped the IoT landscape, making mass-scale smart devices accessible to all.

As a global semiconductor innovator, we deliver high-performance RISC-V SoCs and comprehensive solutions with integrated AI, in-house operating system, robust security, and seamless cloud integration—shaping the future of smart, connected systems.

Global Presence

Singapore	Singapore
China	Shanghai · Suzhou · Wuxi · Hefei · Shenzhen
Czechia	Brno
Brazil	Campinas
India	Pune
Japan	Tokyo

ESP32
ESP8266

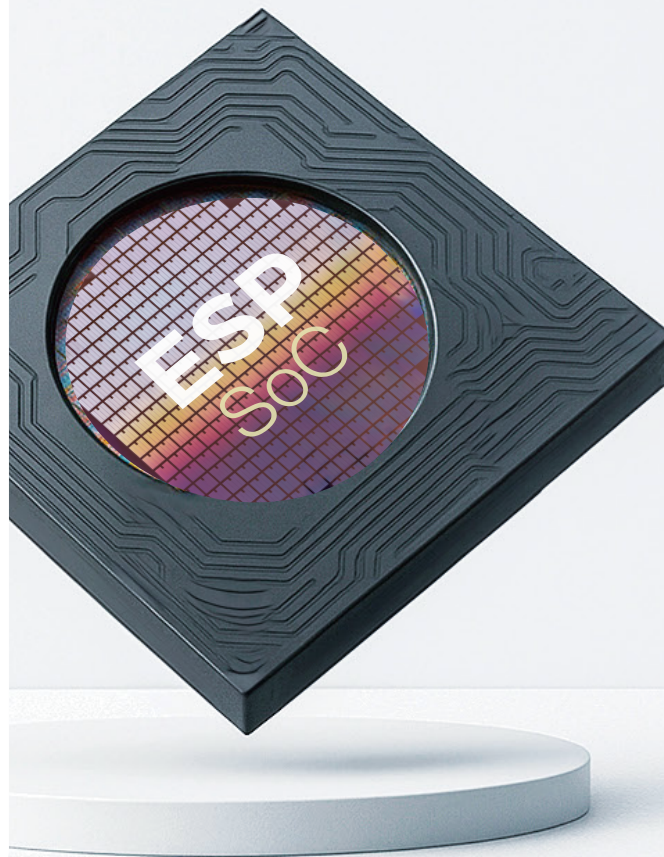
IC Design House

TOP 5
in Wi-Fi Market

1.5 Billion+
Global IoT SoC Shipments

46.72%
2025 YoY Growth of
Attributable Net Profit

3 Million+
Active Ecosystem
Followers and Developers



We empower developers to build competitive, scalable AIoT devices. By engaging with the developer community, we continuously improve our products. Our wide product range, from low-cost devices to complex cloud-integrated solutions, reflects our commitment to simplicity, affordability, and faster time-to-market. Together, we drive innovation and impact in AIoT.



Teo Swee Ann Founder & CEO

Master of Engineering, NUS, 2002

RF/Analog Circuit Expert, Senior
Software Engineer

CDE Distinguished Alumni
Award 2022

Fellow of the Singapore
Academy of Engineering



Vision and Mission

Democratizing Technology Access

With our commitment to providing open-source IoT solutions for businesses and developers alike, we continue to diversify opportunities in the tech industry. By offering open-source tools and resources, we empower a diverse community of innovators to address critical societal challenges. Our goal is to foster collaboration and innovation across industries, driving positive change towards a brighter future.



230 K+

ESP32 & ESP8266 project repositories



190 K+

ESP32 subreddit members



300+

ESP related books available in over 10 languages



5.1 M+

Views on most popular ESP32 videos in 2026



903 K+

Total views of most popular video on ESP32

3.7 M+

Short-form content views featuring ESP projects

Explore Espressif's Journey



Core Technologies

From Core Technologies To Full-Stack Solutions

We are pushing the boundaries in wireless connectivity, multi-protocol integration, and multimedia SoCs. Committed to full-stack development, we build our own wireless IPs, RF components, RISC-V cores, software frameworks, and AI toolchains.

Espressif is also exploring the integration of large language models (LLMs) at the edge—enabling devices to sense, understand, and respond more intelligently.



Cloud
Solutions



ESP RAINMAKER®

ESP INSIGHTS



ESP PRIVATE AGENTS



AIoT SDKs &
Solutions



ESP-Claw
AI Agent Framework



ESP-Vision
Low-Code Vision Framework



ESP-SR
Speech Recognition



ESP-WHO
Image Recognition



ESP-DL
Deep Learning Library



ESP-NN
Neural Network



Operating
Systems



ESP-IDF



Compilers & Tool Chains



Networking
Protocols



Chip Design



AI Acceleration Instructions

Connectivity

Wi-Fi

Wi-Fi 7 / 6E / 6
2.4G / 5G / 6G Tri-Band
160 MHz BW · 2x2 MU-MIMO · 1024-QAM
2.4Gbps Tput

Bluetooth

Full-Featured Bluetooth LE 5.4 & 6.x

IEEE 802.15.4

Thread
Zigbee

Computing

CPU

RISC-V Core
64-bit Application Processors
32-bit MCUs

AI

NPU
Machine Vision

Multimedia

H.265 Encoder
ISP

High-Speed Interfaces

PCIe
DDR
USB

Diversified Chip Matrix

Processing & Connectivity

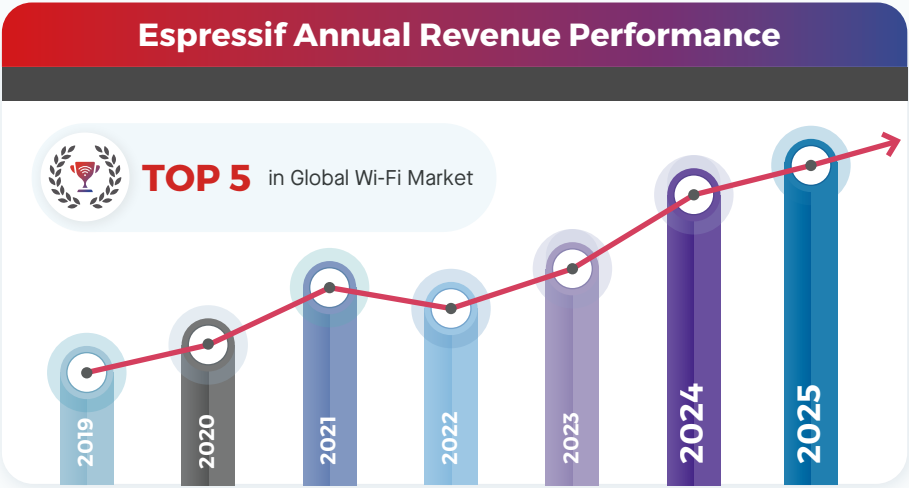
Espressif's diverse SoC portfolio ranges from entry-level controllers to high-performance multicore platforms, featuring high integration and multi-protocol support. Widely used in smart home, wearables, and industrial control, our chips are built on proprietary architectures and fully compatible with Espressif's unified development framework—empowering developers to build scalable, reliable IoT solutions with ease.



Performance-Driven	ESP32 32-bit Xtensa MCU Dual-Core @240 MHz 	ESP32-S3  32-bit Xtensa MCU Dual-Core @240 MHz 	ESP32-S31  32-bit RISC-V MCU Dual-Core @320 MHz 
	ESP32-S2 32-bit Xtensa MCU Single-Core @240 MHz 	ESP32-C5  32-bit RISC-V MCU Single-Core @240 MHz 	ESP32-P4  32-bit RISC-V MCU Dual-Core @400 MHz  H.264 encoding
		ESP32-H4 32-bit RISC-V MCU Dual-Core @96 MHz 	
	Connectivity-Driven	ESP8266 32-bit Tensilica MCU Single-Core @160 MHz 	ESP32-C6 32-bit RISC-V MCU Single-Core @160 MHz  ESP32-C3 32-bit RISC-V MCU Single-Core @160 MHz  ESP32-C2 32-bit RISC-V MCU Single-Core @120 MHz  ESP32-H2 32-bit RISC-V MCU Single-Core @96 MHz 
Classic		Recent	New

Industry Outlook

Espressif remains as a global market leader in the field of Wi-Fi MCUs. By constantly diversifying our product portfolio, our chips can be utilized in various segments of the IoT market.



Diverse Applications

Smart Home

Consumer Electronics

Industrial Automation

Smart Agriculture

Healthcare

Energy Management

Internet of Vehicles

Education

Edge-Cloud AI

Espressif harnesses full-stack innovation with proven performance and collaborates with a global ecosystem of leading technology partners.

Apple Developer

Apple showcases Embedded Swift on ESP32-C6 to build Matter-Enabled connected devices.

Microsoft

Microsoft DeviceScript supports the ESP32 Series, enabling fast prototyping in TypeScript.

Claude

ESP32-powered Hardware Featured in Anthropic Official Demos

OpenAI

Released Open Realtime API Embedded SDK supported on ESP32-S3.

VolcanoEngine

ByteDance's VolcEngine & Espressif co-develop LLM-powered embedded IoT solutions.

BAIDU AI CLOUD

Baidu RTC Solution on ESP32 Enables Voice & Vision AI Agents

Dream · Build · Deliver

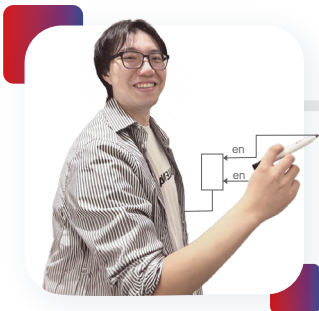
Every step is made possible by
exceptional talent and teamwork



Shirley

Project Manager Imperial College London

My biggest takeaway from Espressif? Collaboration can truly be rewarding! Espressif's strong culture of innovation fostered an environment where ideas can flow freely and a place where curiosity and candor thrive. By working on new projects, my professional skills and management abilities have grown tremendously.



An Ran

Digital IC Engineer Tsinghua University

Espressif is an open and warmhearted tech community. People here are eager to share their experiences, treat every project like a crafted piece of art, and enjoy exploring the frontiers of technology together. Challenging work came early, but I was never alone. My mentor was always by my side, supporting me through trial and error and growing with me along the way.

Yu An

Digital IC Engineer National University of Singapore

Espressif stood out as one of my most enjoyable internships, where I was trusted to design AI workflows for digital IC design team. The cross-disciplinary nature of my internship reflects the working philosophy here: real ownership to tackle problems across domains, where job scopes are not statically defined. I'd recommend Espressif to anyone who enjoys building solutions and seeing them integrated into real systems in a dynamic engineering environment.



Ruo

Embedded Software Engineer Stanford University

From a fresh graduate to taking full ownership of projects, I've grown through hands-on experience at Espressif. The team culture is inclusive, code reviews are thoughtful and constructive, and colleagues are both professional and generous in sharing their knowledge. Every day here brings new challenges and meaningful growth.



Radim

Software Engineer Brno University of Technology

Since day one at Espressif, I was trusted with real ownership and given the opportunity to grow alongside top professionals. The culture here encourages individuality, innovation, and lifelong learning. I've grown quickly, not just technically—but as part of a team that shares goals and values.



Learn · Adapt · Grow

Discover Your Best Self at Espressif

Shawn

Analog IC Engineer

Nanyang Technological University

As an analog IC engineer, I focus on designing and optimizing critical circuits. The projects challenged me to perform at my best and truly sharpened my skills. I was fortunate to meet experienced mentors who generously shared their knowledge. They helped me deepen my understanding of the fundamental logic behind analog design. It's a privilege to work in such a professional and supportive team.



Zhaocheng

Digital IC Engineer

Nanyang Technological University

Throughout my internship, I was fortunate to be surrounded by teammates who patiently guided me while encouraging me to think independently and solve problems on my own. Seeing a solution finally come together after days of persistence was incredibly rewarding. The culture of trust, growth, and meaningful work is why I chose to start my career at Espressif.



Manali

Software Cloud Engineer

International Institute of Information Technology - Pune

Joining the ESP RainMaker cloud backend team right after graduation was a great way to dive into new technologies and broaden my understanding early on. A big thank you to my team, who patiently resolved all my doubts, and my manager who fostered an environment where I could fail and learn.



Estelle

AI Engineer University of Cambridge

I chose Espressif because it offers the opportunity to work on innovative AI and embedded systems while learning from an experienced and collaborative team. The interview process was both technically engaging and welcoming, and the thoughtful interactions with the interviewers reinforced my impression that Espressif is a place where I can continue to grow professionally and contribute meaningfully.



Shaoliang

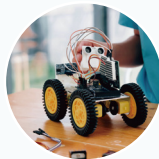
Robotics Engineer National University of Singapore

Espressif stood out to me because of its dedication to open source and the vibrant global community behind its technology. It will be fulfilling to build prototypes that don't stop with us, but become the starting point for someone else's next great idea. I'm excited to work on next-generation robotics while broadening my perspective through Espressif's overseas programme.



Diversity Respect Collaboration

We bring together talents from diverse cultures, disciplines, and backgrounds to create technologies with global impact



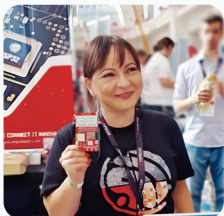
*BUILD SMART
WITH ESPRESSIF*



ESPRESSIF

ESP
Family

SHARE :: CONNECT :: INNOVATE



Analog IC Design Engineer

Job Responsibilities

- Responsible for the design, simulation, and verification of analog circuits
- Perform layout floor plan simulations and ensure optimization
- Collaborate with layout engineers to finalize circuit design work
- Prepare comprehensive design documentation and maintain detailed records throughout project lifecycle
- Coordinate with application, product, and test engineers to ensure successful mass production of the product

Job Requirements

- Bachelor’s degree or above in Microelectronics, Electronic Engineering, Communication Engineering, or related fields
- Solid foundational knowledge in analog circuit design principles
- Hands-on experience in designing one or more of the following circuits: LDO, Oscillator, IO, ESD, ADC, DAC, PLL, and filters
- Proficiency in at least one programming language such as Python, Matlab, or C
- Strong problem-solving skills and good communication and learning abilities.
- Passion for analog circuit design, with a strong interest in advancing knowledge and skills in this field

 **Location:**
Shanghai

Open to 2027 Fresh Graduates

Fresh Graduates		Internship
Singapore	Shanghai	Singapore
	✓	

Digital IC Design Engineer

Job Responsibilities

- Micro-architecture & RTL development for AI compute subsystems
- Analyze performance, power, and area (PPA) to deliver high-performance compute within strict cost and energy budgets
- Collaborate with verification teams to execute module-level and system-level validation
- Support driver development, debugging, and technical documentation throughout the project life cycle

Job Requirements

- Bachelor’s degree or above in Electrical Engineering, Computer Engineering or related fields
- Strong grasp of digital-circuit fundamentals and a keen eye for performance, power, and area trade-offs
- Solid knowledge of computer architecture, neural-network processing, bus architectures, and memory systems

 **Location:**
Singapore or Shanghai

Open to 2027 Fresh Graduates or Semester Interns

Fresh Graduates		Internship
Singapore	Shanghai	Singapore
✓	✓	✓

AI Compiler Engineer

Job Responsibilities

- Extend MLIR/LLVM to support vector and matrix instruction sets
- Implement optimization and lowering passes for AI operators
- Build compiler interfaces compatible with ecosystem conventions
- Integrate autotuning and performance modeling
- Collaborate with runtime and kernel teams to align code generation strategies

Job Requirements

- Bachelor's degree or above in Electrical Engineering, Computer Engineering, Computer Science or related fields
- Strong C++/Python proficiency
- Familiarity with MLIR, LLVM, TVM, or XLA
- Knowledge of integrating custom instructions or intrinsics
- Knowledge of AI model graph-to-code lowering workflows

 **Location:**
Singapore or Shanghai

Open to 2027 **Fresh Graduates**

Fresh Graduates		Internship
Singapore	Shanghai	Singapore
✓	✓	

Embedded Software Engineer

Job Responsibilities

- Design and develop wireless protocol stacks such as Wi-Fi, Bluetooth, IEEE 802.15.4, and ensure coexistence among them
- Develop multimedia algorithms including H.264, JPEG, and audio codecs; work on multimedia protocols like DLNA and VoIP; and contribute to other components in the Multimedia SDK
- Design and implement embedded multimedia solutions based on Wi-Fi/Bluetooth chips and SDKs, such as voice-controlled speakers and IoT devices
- Analyze, identify, and resolve customer issues to support successful product and project development

Job Requirements

- Bachelor's degree or above in Computer Science, Electronic Engineering, Communication, Automation, or related fields
- Proficient in C/C++ programming & Python
- Familiarity with FreeRTOS or other real-time operating systems
- Knowledge of hardware communication protocols: SPI, UART, I2C, I2S
- Fluency in Chinese (spoken and written) to collaborate with our Shanghai-based team

 **Location:**
Singapore or Shanghai

Open to 2027 **Fresh Graduates**

Fresh Graduates		Internship
Singapore	Shanghai	Singapore
✓	✓	