



The Solutions People

www.einfochips.com

Job Description, Role & Responsibilities

POSITION TITLE: Engineer / Sr Engineer / Technical Lead
EXPERIENCE: 4-8 Years
Role: C++, Linux, Video
LOCATION: Ahmedabad, Pune, Noida, Bangalore, Hyderabad, Chennai, Indore

Company Profile

eInfochips – An Arrow Company (www.einfochips.com) is a leading global provider of product engineering and semiconductor design services. With over 500+ products developed and 40M deployments in 140 countries, eInfochips continues to fuel technological innovations in multiple verticals. The company's service offerings include digital transformation and connected IoT solutions, including IoT Security, across various cloud platforms, including AWS and Azure.

Our work culture is built over years of experience in providing innovative solutions to our clients and our indomitable spirit to excel in all aspects of our engagement. We believe that our success lies upon the skills and quality of our people we work with.

Silicon engineering services: ASIC / FPGA Design & Development, Design Verification & Validation, Physical Design & DFT

Embedded systems engineering services: Hardware Design, System Software, System Verification & Validation, Multimedia

Software engineering services: Cloud Enablement, IoT & Mobility, Application Software, QA and Test Automation, BI and Data Visualization

Extended services: New Product Development, Lifecycle Management, Product Sustenance

IPs: DevOps for IoT, IoT Gateway Framework, IoT Device Lifecycle Management, Video Management Software, Reusable Camera Framework, Test Automation Framework, Reference Designs & EVMs, Verification IPs, OptiX – Physical Design Framework

About Arrow Electronics

Arrow Electronics (www.arrow.com) a Fortune 109 company with 2022 sales of \$37 billion. Our global team includes 22,000+ employees in over 220 sales locations and 43 distribution and value-added centers. We guides innovation forward for over 220,000 leading technology manufacturers and service providers. We help the world's best technology companies think "Five Years Out," working together to innovate the next big thing after the next big thing.



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Key Responsibilities

- Responsible for design and development of real time embedded software/firmware software application.
- To Analyse domain specific technical or low level requirement and modification as per end customer or system requirement.
- Participate in High level and low level software design
- Perform software testing including unit, functional and system level requirement including manual and automated
- Performs software requirement to design to coding to testing traceability
- Performs code review following coding guidelines and static code analysis
- Troubleshoots software problems of limited difficulty.
- Documenting technical deliverable like software specifications, design document, code commenting, test cases and test report, Release note etc. throughout the project life cycle.
- Follow defined process for software Development life cycle
- Develops software solutions from established programming languages or by learning new language required for specific project.

Experience / Skills Required

- Should be proficient in using C++ 14 or higher language on embedded platforms, OOPS fundamentals should be very strong.
- Hands on experience on boost-beast and boost-asio.
- Strong knowledge of streaming protocols like RTP, RTSP, RTCP, SIP and WebRTC
- Strong knowledge and working experience in ONVIF Protocol
- Working knowledge on Surveillance products with audio and video interfaces
- Must have strong fundamental knowledge of audio formats, video formats, encoding / decoding standards, streaming protocols, multimedia frameworks
- Basic knowledge of H264, H265, MP4 and Fragmented MP4, G711, G726, AAC, WAV
- Must have strong fundamental knowledge of Multi-threaded, Multi Process based Linux application development with IPC concepts
- Strong knowledge of multimedia framework such as ffmpeg, gstreamer, live555
- Strong experience in debugging tools like GDB, Valgrind, Wireshark, PostMan, ONVIF Device Test Tool.
- Good to have experience on Cloud integration using AWS S3 API integration and Device Registration & Telemetry
- Experience working with development tools like Codec analyzers, Audio/Video Analyzers, GIT, SVN, JIRA.
- * Strong sense of ownership, passionate, fast learner, analytical mind set, perfection seeker.



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Personal Attributes

The ideal candidate should have strong Team-work characteristics, being both action and results-oriented. He/she will be a hands-on, “roll-up-the-sleeves” type engineer with a “whatever it takes to get it done” attitude. The successful candidate must be effective operating in a multi disciplined technology environment coupled with an obsession for responsiveness to Project requirements. The successful candidate should be open to learn new processes and technologies.

In addition, the right candidate will:

- Incumbent works under general supervision
- Incumbent has substantial experience to resolve problems and concepts
- Incumbent can work on complex concepts and implementation
- Be a highly energetic self-starter
- Be an open and excellent communicator
- Have exceptional interpersonal skills
- Be a consummate team player
- Interface well with Client Engineer Team members and other Business Units of eInfochips
- Finally, this individual must have an uncompromising level of personal integrity.

Education

A Graduate degree in Electronics and communication/Information Technology/Computer-Science is required. A Masters technical degree is highly desirable.

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OUR CORE VALUES

- a. Customer First
- b. Disciplined Execution
- c. Embrace Impossible Challenges
- d. Continuous Learning
- e. Service Society