



The Solutions People

[www.einfochips.com](http://www.einfochips.com)

## Job Description, Role & Responsibilities

**POSITION TITLE:** Engineer / Sr. Engineer (MCU RTOS)  
**EXPERIENCE:** 4-8 Years  
**Role:** MCU + RTOS  
**LOCATION:** Ahmedabad, Pune, Indore

## Company Profile

eInfochips – An Arrow Company ([www.einfochips.com](http://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](http://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 guide 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 on RTOS based Platforms
- To Analyse domain specific technical or low level requirement and modification as per end customer or system requirement.
- Participate in high level requirements analysis, High level and low level software design
- Perform software testing including unit and functional testing
- Troubleshoots software problems which are complex in nature.
- Documenting technical deliverable like software specifications, design document, code commenting and unit test cases, Release note etc. throughout the project life cycle.
- Follow defined process for software Development life cycle
- Develop new approaches to complex design problems.

## Experience / Skills Required

- Strong RTOS experience like FreeRTOS or similar
- Experience in bootloader development
- Strong experience working with various micro controllers and IDE for the same
- Expertise in various peripheral buses such as I2C, SPI, Serial
- Experience working with HAL
- Experience in RTOS based application development
- Expertise in Optimizations on embedded platform
- Strong C/C++ Programming skills
- Experience in assembly level coding is added advantage
- Use of hardware such as oscilloscope and logic analyzers for hardware debugging
- Strong debugging skills
- Strong sense of ownership, passionate, fast learner, analytical mind set, perfection seeker.

## 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 generally works with less supervision and has ability to solve complex problems arising during the flow of work
- Limited guidance and direction is provided.



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- 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